



LEARNER'S WORKSHEETS

MATH

GRADE

3



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ARAL-Mathematics Learner's Worksheets

Key Stage 1 – Grade 3

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Table of Contents

Worksheet 1:		2
Worksheet 2:		4
Worksheet 3:		6
Worksheet 4:		8
Worksheet 5:		10
Worksheet 6:	.....	12
Worksheet 7:	.....	14
Worksheet 8:	.....	16
Worksheet 9:	.....	18
Worksheet 10:	.....	20
Worksheet 11:	.....	22
Worksheet 12:	.....	24
Worksheet 13:	.....	26
Worksheet 14:	.....	27
Worksheet 15:	.....	29
Worksheet 16:	.....	31
Worksheet 17:	.....	33
Worksheet 18:	.....	35
Worksheet 19:	.....	37
Worksheet 20:	.....	39

Worksheet 21:	.....	41
Worksheet 22:	.....	43
Worksheet 23:	.....	44
Worksheet 24:	.....	46

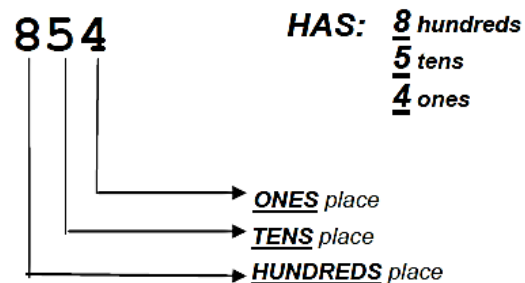


ARAL Math Grade 3 Worksheet 1 (Part 1)

Place Value

Consider: What is the place value of the underlined digit: 854?

Illustration of Place Value:



The place value of the underlined digit 5 is **tens**.

Write the place value of the underlined.

2 <u>3</u> 4	1)	2 <u>6</u> 5	5)
4 <u>6</u> 7	2)	24 <u>7</u>	6)
78 <u>0</u>	3)	19 <u>1</u>	7)
<u>5</u> 18	4)	56 <u>3</u>	8)
		4 <u>8</u> 0	9)
		<u>7</u> 34	10)
		5 <u>6</u> 7	11)
		<u>3</u> 45	12)
		<u>6</u> 78	13)





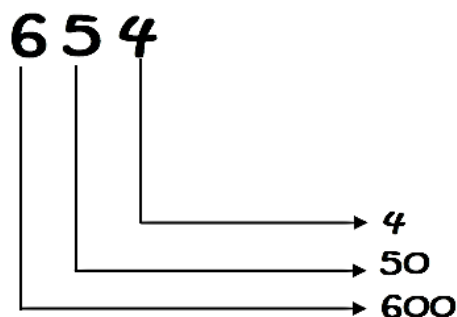
ARAL Math Grade 3 Worksheet 1 (Part 2)

VALUE OF EACH DIGIT IN A NUMBER

What are the values of each digit in the given number?

The value of a digit depends on its place, or position, in the number. Each place has a value of 10 times the place to its right.

Example:



So what is the value of the digit 5? The value of the digit 5 is 50,000.

Write the value of the underlined digit.

<u>5</u> 00	14)	45 <u>2</u>	18)
<u>3</u> 00	15)	<u>2</u> 34	19)
7 <u>3</u> 1	16)	<u>7</u> 34	20)
7 <u>8</u> 0	17)	<u>5</u> 64	21)
		34 <u>5</u>	22)
		<u>5</u> 77	23)
		37 <u>2</u>	24)
		<u>8</u> 43	25)
		<u>1</u> 23	26)
		1 <u>0</u> 2	27)
		<u>6</u> 11	28)



ARAL Math Grade 3 Worksheet 2 (Part 1)

Writing Numbers in Words

Writing numbers from 20
to 99

*Always remember to write a
hyphen between the numbers!*

21	Twenty-one
36	Thirty-six
49	Forty-nine
57	Fifty-seven
62	Sixty-two
78	Seventy-eight
83	Eighty-three
95	Ninety-five

100	one hundred
200	two hundred
300	three hundred
400	four hundred
500	five hundred
600	six hundred
700	seven hundred
800	eight hundred
900	nine hundred

Start from the left-most digit then move to the next digit until you have written the whole number:

Example:

1,000 - one thousand

158 - one hundred fifty-eight

Write the following numbers in words.

346	1)	899	6)
476	2)	401	7)
258	3)	256	8)
389	4)	677	9)
956	5)	555	10)
		210	11)
		587	12)
		689	13)
		897	14)
		512	15)
		734	16)
		930	17)
		456	18)
		545	19)
		1,000	20)





ARAL Math Grade 3 Worksheet 2 (Part 2)

400	21)	two hundred	31)
320	22)	five hundred four	32)
141	23)	six hundred forty	33)
196	24)	nine hundred nineteen	34)
658	25)	two hundred fourteen	35)
Writing Words in Numbers EXAMPLES 1) four hundred sixty-seven 467 2) seven hundred twenty-two 722 3) six hundred thirty-two 632 4) five hundred eighteen 518 5) six hundred one 601		four-hundred forty-three	36)
		nine hundred ninety-nine	37)
		eight hundred seventy-six	38)
		two hundred ten	39)
		one hundred fifteen	40)
Write the following words in numbers.		two hundred six	41)
		seven hundred twenty-three	42)
		three hundred eighteen	43)
		eight hundred eighteen	44)
		one thousand	45)
three hundred forty-five	26)		
six hundred seventy-two	27)		
five hundred one	28)		
two hundred seventy-seven	29)		
eight hundred fifty-three	30)		





ARAL Math Grade 3 Worksheet 3 (Part 1)

WRITING NUMBERS IN EXPANDED		
STANDARD FORM	2 Ways of Writing in EXPANDED FORM	
678	First format: $600 + 70 + 8$	534
		463
	Second format: $(6 \times 100) + (7 \times 10) + (8 \times 1)$	370
Write the following in expanded form. For numbers 1-10 use the first format, for numbers 11-20, use the second format.		241
		507
345	1)	654
789	2)	862
127	3)	671
600	4)	804
507	5)	975
654	6)	534
		363
		234
		156
		6)





ARAL Math Grade 3 Worksheet 3 (Part 2)

Write the following in expanded form. You may use any format.			
		652	35)
seventy-seven	21)	235	36)
twenty-six	22)	981	37)
Ninety	23)	644	38)
Sixty-nine	24)	267	39)
Forty-seven	25)	109	40)
Thirty-eight	26)	631	41)
Ninety-five	27)	317	42)
seven hundred twenty-eight	28)	783	43)
Nine hundred ninety-nine	29)	430	44)
One hundred fifty-two	30)	999	45)
Six hundred twenty	31)		
Nine hundred nineteen	32)		
Two hundred fifty-four	33)		
Six hundred fifty-one	34)		





ARAL Math Grade 3 Worksheet 4 (Part 1)

Write the correct symbol on the blank provided . ($<$, $>$, or $=$).		Answer the following problems.	
998 899 ____ 99 889	1)	Currently, Quezon City has 18 public hospitals and 54 health centers. Which hospital does Quezon City have more of?	11)
500 001 ____ 500 010	2)	Quezon City has 96 elementary schools and 42 secondary schools. Which type of school does Quezon City have less of?	12)
99 000 ____ 90 999	3)	There are 6 television networks and 10 radio stations located in Quezon City. Which type of station or network does Quezon City have more of?	13)
85 538 ____ 58 358	4)	Batangas has 31 municipalities while Bulacan has 21 municipalities. Which province has more municipalities?	14)
678 898 ____ 697 889	5)	In 2008, approximately 51 percent of the population are male and 49 percent are female in the Philippines. Which gender does the Philippines have less of?	15)
455 600 ____ 466 500	6)	In 2006, there were 41 983 schools in the country while in 2007, there was a total of 42 152 schools. In what year were there more schools?	16)
989 800 ____ 998 800	7)	In 2003, there was a total of 160 828 teachers in both public and private schools in the country. Then, in 2004, this figure became 163 437. In what year were there more teachers?	17)
100 002 ____ 100 010	8)	The city of Manila has a total population of 1 581 082 while the city of Caloocan has 1 177 604. In which city was the population less?	18)
323 522 ____ 322 523	9)	The city of Marikina has a total population of 391 170 while the city of Pasay has 354 908. Which city has less people in it?	19)
123 115 ____ 102 231	10)		





ARAL Math Grade 3 Worksheet 4 (Part 2)

ARRANGING NUMBERS IN increasing or ASCENDING ORDER

Let us consider the following numbers:

3, 0, 2, 1

When arranged from least to greatest value or in ascending order, these numbers are ordered as:

0, 1, 2, 3

0 has the least value and 3 has the greatest value in the set. 1 is greater than 0 and 2 is greater than 1.

Arrange the following numbers in increasing or ascending order.

1, 4, 3, 2	20)
3, 6, 4, 5	21)
9, 11, 10, 8	22)
3, 0, 2, 1	23)
2, 5, 4, 3	24)
4, 6, 7, 5	25)
8, 6, 7, 9	26)
8, 7, 6, 5	27)
9, 2, 6, 3	28)
9, 7, 6, 0	29)
10, 8, 9, 7	30)

ARRANGING NUMBERS IN decreasing or DESCENDING ORDER

Let us consider the following numbers:

3, 0, 2, 1

When arranged from greatest to least value or in descending order, these numbers are ordered as:

3, 2, 1, 0

3 has the greatest value and 0 has the least value in the set. 2 is greater than 1 and 1 is greater than 0.

Arrange the following numbers in decreasing or descending order.

0, 11, 9, 5	31)
10, 8, 4, 2	32)
3, 9, 6, 12	33)
12, 11, 9, 8	34)
18, 20, 19, 21	35)
19, 21, 20, 22	36)
20, 17, 18, 19	37)
11, 13, 12, 14	38)
20, 23, 21, 22	39)
17, 15, 16, 14	40)





ARAL Math Grade 3 Worksheet 5 (Part 1)

**Determine the missing term/s in a given continuous pattern using TWO ATTRIBUTES.
Write the missing term/s in the blank provided.**

1) 2 B 4 D 6 F 8 H 10 _ _	11) B 2 C 4 D 6 E 8 _ _
2) 5 K 10 L 15 M 20 N _ _	12) 10 J 20 I 30 H 40 G _ _
3) A 1 C 2 E 3 G 4 I _ _	13) A 5 B 10 C 15 D 20 _ _
4) Z 26 Y 24 X 22 W 20 _ _	14) R 18 Q 16 P 14 O 12 _ _
5) 10 D 15 E 20 F 25 G _ _	15) 2 M 4 N 6 O 8 P _ _
6) Q 17 P 15 O 13 N 11 _ _	16) L 30 K 25 J 20 I 15 _ _
7) 2 A 4 B 6 C 8 D _ _	17) 1 Z 2 Y 3 X 4 W _ _
8) M 10 N 15 O 20 P 25 _ _	18) 5 E 10 F 15 G 20 H _ _
9) 2 Z 4 Y 6 X 8 W _ _	19) S 19 T 17 U 15 V 13 _ _
10) 2 G 4 H 6 I 8 J _ _	20) 100 A 200 C 300 E 400 G _ _





ARAL Math Grade 3 Worksheet 5 (Part 2)

**Determine the missing term/s in a given continuous pattern using TWO ATTRIBUTES.
Write the missing term/s in the blank provided.**

21) 20 A 40 B 60 C 80 D 100 E _ _	31) R 8 S 10 T 12 U 14 V 16 _ _
22) Q 5 P 10 O 15 N 20 M 25 _ _	32) 9 M 8 N 7 O 6 P 5 Q _ _
23) 2 K 4 L 6 M 8 N 10 O _ _	33) C 45 D 40 E 35 F 30 G 25 _ _
24) A 5 B 10 C 15 D 20 E 25 _ _	34) 20 A 40 B 60 C 80 D 100 _ _
25) Z 30 Y 28 X 26 W 24 V 22 _ _	35) L 5 K 10 J 15 I 20 H 25 _ _
26) 20 D 40 E 60 F 80 G 100 H _ _	36) 100 Q 98 R 96 S 94 T 92 U _ _
27) M 2 N 4 O 6 P 8 Q 10 _ _	37) B 45 C 50 D 55 E 60 F 65 _ _
28) 5 X 10 W 15 V 20 U 25 T _ _	38) 20 J 18 I 16 H 14 G 12 F _ _
29) H 8 G 6 F 4 E 2 D 0 _ _	39) P 0 O 50 N 100 M 150 L 200 _ _
30) 30 A 40 B 50 C 60 D 70 E _ _	40) 45 Z 40 Y 35 X 30 W 25 V _ _



ARAL Math Grade 3 Worksheet 6 (Part 1)

Determine the missing terms using one attribute in a given continuous pattern or in a given repeating pattern.

1) 2, 4, 6, 8, 10, ____, ____	11) A, B, A, B, A, B, ____, ____
2) A, B, C, D, E, ____, ____	12) X, Y, Z, X, Y, Z, ____, ____
3) January, February, March, April, ____, ____	13) red, blue, red, blue, red, blue, ____, ____
4) Monday, Tuesday, Wednesday, Thursday, ____, ____	14) cat, dog, cat, dog, cat, dog, ____, ____
5) 2, 4, 6, 8, 10, 12, 14, ____	15) 5, 10, 5, 10, 5, 10, ____, ____
6) 3, 3, 3, 3, 3, 3, 3, ____	16) 1, 2, 1, 2, 1, 2, ____, ____
7) 15, 20, 25, 30, 35, ____, ____	17) 2, 4, 2, 4, 2, 4, ____, ____
8) 31, 36, 41, 46, 51, ____, ____	18) A, A, B, B, A, A, B, B, ____, ____
9) G, H, I, J, K, ____, ____	19) sunny, rainy, sunny, rainy, sunny, rainy, ____, ____
10) 1st, 2nd, 3rd, 4th, 5th, ____, ____	20) 100, 90, 80, 70, 60, ____, ____





ARAL Math Grade 3 Worksheet 6 (Part 2)

Determine the missing terms using one attribute in a given continuous pattern and in a given repeating pattern.

21) 3, 6, 9, 12, 15, _____, _____	31) red, blue, red, blue, red, blue, red, blue, _____, _____
22) K, L, M, N, O, _____, _____	32) black, white, black, white, black, white, _____, _____
23) May, June, July, August, _____, _____	33) cat, cat, dog, cat, cat, dog, cat, cat, dog, _____, _____
24) Saturday, Sunday, Monday, Tuesday, _____, _____	34) apple, banana, apple, banana, apple, banana, _____, _____
25) 1, 11, 111, 1111, 11111, _____, _____	35) 2, 4, 2, 4, 2, 4, 2, 4, _____, _____
26) yes, yes, no, yes, yes, no, yes, yes, _____, _____	36) A, A, B, A, A, B, A, A, B, _____, _____
27) 50, 55, 60, 65, _____, _____	37) 1, 1, 2, 1, 1, 2, 1, 1, 2, _____, _____
28) P, Q, R, S, T, U, _____, _____	38) Monday, Monday, Tuesday, Monday, Monday, Tuesday, _____, _____
29) 10th, 11th, 12th, 13th, _____, _____	39) high, low, high, low, high, low, high, low, _____, _____
30) 100, 200, 300, 400, _____, _____	40) up, down, up, down, up, down, up, down, _____, _____



ARAL Math Grade 3 Worksheet 7 (Part 1)

Visualizes and counts numbers by 10s, 50s, 100s.

1) 10, 20, 30, _____, _____, _____, _____, 80, 90, 100	11) Skip counting 10. 5 15 25
2) Skip counting 50. 50 100 150	12) 75, 125, 175, _____, _____, _____, 375, 425, 475
3) Skip counting 100. 100 200 500	13) 200, 300, 400, _____, _____, 700, 800, 900
4) 350, 400, 450 _____, _____, _____	14) 100 100 100 100 How many? _____
5) 5, 15, 25, _____, _____, _____, 65, 75, 85	15) Skip counting 50. 100 150 250
6) Skip counting 100. 300 600 900 1000	16) 150, 250, 350, _____, _____, _____, 750, 850, 950
7) Skip counting 10. 20 30 60	17) 25, 35, _____, _____, _____, 75, 85, _____, _____
8) 100, 200, 300, _____, _____, _____, 700, 800, 900	18) Skip counting 50. 75 225 375
9) Skip counting 100. 100 200 500	19) 50 50 50 50 50 50 How many? _____
10) 30, 40, 50, _____, _____, _____, 90, 100	20) 100, 200, 300, 400, _____, _____, _____, 800, 900, 1000



ARAL Math Grade 3 Worksheet 7 (Part 2)

Visualizes and counts numbers by 10s, 50s, 100s.

21) Skip counting 10. 60 70 80	30) Skip counting 10. 10 10 10 10 10 10 10 10 How many? ____
22) Skip counting 50. 150 200 250 450 500	31) Skip counting 50. 50 50 50 50 50 50 50 50 How many? ____
23) Skip counting 100. 100 200 300 600 700 800	32) Skip counting 100. 100 100 100 100 100 100 100 How many? ____
24) Skip counting 10. 30 40 80 90 100	33) Skip counting 10. 10 10 10 10 10 10 10 10 10 How many? ____
25) Skip counting 50. 50 100 150	34) Skip counting 50. 50 50 50 50 50 How many? ____
26) Skip counting 100. 200 300 400 700 800 900	35) Skip counting 100. 100 100 100 100 100 How many? ____
27) Skip counting 10. 80 90 100	36) Skip counting 10. 10 10 10 10 10 10 10 10 10 How many? ____
28) Skip counting 50. 450 500 550	37) Skip counting 50. 50 50 50 50 50 How many? ____
29) Skip counting 100. 700 800 900	38) Skip counting 100. 100 100 100 100 100 100 How many? ____



ARAL Math Grade 3 Worksheet 8 (Part 1)

Compare the following unit fractions. Write <, > or =.				Arrange the following unit fractions in ascending order.	
$\frac{1}{5} \bigcirc \frac{1}{8}$	1)	$\frac{1}{4} \bigcirc \frac{1}{4}$	6)	$\frac{1}{4} \quad \frac{1}{6} \quad \frac{1}{3}$	11)
$\frac{1}{2} \bigcirc \frac{1}{3}$	2)	$\frac{1}{3} \bigcirc \frac{1}{6}$	7)	$\frac{1}{3} \quad \frac{1}{4} \quad \frac{1}{2}$	12)
$\frac{1}{5} \bigcirc \frac{1}{6}$	3)	$\frac{1}{8} \bigcirc \frac{1}{3}$	8)	$\frac{1}{6} \quad \frac{1}{5} \quad \frac{1}{8}$	13)
$\frac{1}{6} \bigcirc \frac{1}{4}$	4)	$\frac{1}{5} \bigcirc \frac{1}{2}$	9)	$\frac{1}{2} \quad \frac{1}{8} \quad \frac{1}{6}$	14)
$\frac{1}{6} \bigcirc \frac{1}{3}$	5)	$\frac{1}{6} \bigcirc \frac{1}{6}$	10)	Arrange the following unit fractions in descending order.	
				$\frac{1}{6} \quad \frac{1}{2} \quad \frac{1}{3}$	15)
				$\frac{1}{8} \quad \frac{1}{4} \quad \frac{1}{2}$	16)
				$\frac{1}{6} \quad \frac{1}{3} \quad \frac{1}{4}$	17)
				$\frac{1}{3} \quad \frac{1}{8} \quad \frac{1}{6}$	18)

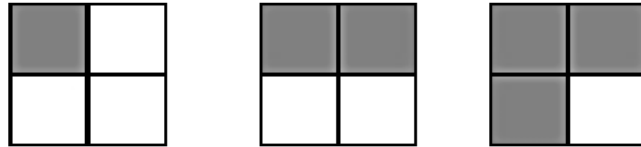


ARAL Math Grade 3 Worksheet 8 (Part 2)

SIMILAR FRACTIONS

Similar fractions are fractions with the same denominators.

Examples:



$$\frac{1}{4}$$

$$\frac{2}{4}$$

$$\frac{3}{4}$$

$\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ are similar fractions.

When comparing similar fractions, the smaller the numerator, the smaller the fraction.

Therefore: $\frac{1}{4} < \frac{2}{4}$

$\frac{2}{4} < \frac{3}{4}$

Arranging them in ascending order: $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$

Arranging them in descending order:

$\frac{3}{4}$, $\frac{2}{4}$, $\frac{1}{4}$

**Compare the following similar fractions.
Write <, > or =.**

$$\frac{3}{8} \bigcirc \frac{1}{8}$$

19)

$$\frac{1}{2} \bigcirc \frac{2}{2}$$

25)

$$\frac{4}{7} \bigcirc \frac{5}{7}$$

20)

$$\frac{6}{7} \bigcirc \frac{4}{7}$$

26)

$$\frac{2}{5} \bigcirc \frac{2}{5}$$

21)

$$\frac{3}{10} \bigcirc \frac{7}{10}$$

27)

$$\frac{5}{10} \bigcirc \frac{4}{10}$$

22)

$$\frac{2}{3} \bigcirc \frac{1}{3}$$

28)

$$\frac{8}{9} \bigcirc \frac{1}{9}$$

23)

$$\frac{1}{10} \bigcirc \frac{1}{10}$$

29)

$$\frac{4}{6} \bigcirc \frac{5}{6}$$

24)

$$\frac{4}{4} \bigcirc \frac{1}{4}$$

30)



ARAL Math Grade 3 Worksheet 9 (Part 1)

ADDITION OF THREE-DIGIT BY TWO-DIGIT NUMBER WITHOUT REGROUPING

In adding three-digit and two-digit numbers vertically, line up the ones digits in the rightmost column. Add the ones digits. Add the tens digits. Bring down the hundreds digit.



Example: Find the sum of 342 and 26.

	Hundreds	Tens	Ones
	3	4	2
+		2	6
	3	6	8

Find the sum.

1)
$$\begin{array}{r} 103 \\ + 23 \\ \hline \end{array}$$

3)
$$\begin{array}{r} 122 \\ + 25 \\ \hline \end{array}$$

8)
$$\begin{array}{r} 140 \\ + 41 \\ \hline \end{array}$$

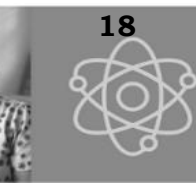
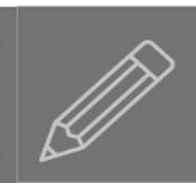
13)
$$\begin{array}{r} 153 \\ + 34 \\ \hline \end{array}$$

2)
$$\begin{array}{r} 110 \\ + 21 \\ \hline \end{array}$$

4)
$$\begin{array}{r} 124 \\ + 35 \\ \hline \end{array}$$

9)
$$\begin{array}{r} 141 \\ + 42 \\ \hline \end{array}$$

14)
$$\begin{array}{r} 155 \\ + 42 \\ \hline \end{array}$$





ARAL Math Grade 3 Worksheet 9 (Part 2)

ADDITION OF THREE-DIGIT BY TWO-DIGIT NUMBER WITH REGROUPING

Consider this: Find the sum of 128 and 34.

In adding three-digit and two-digit numbers with regrouping, line up the ones digits in the rightmost column. Add the ones digits, regroup if need. Add the tens digits, regroup if needed. Bring down or add the hundreds digits.



1. Add the ones digits. ($8 + 4 = 12$). Since the answer is two digits, we need to REGROUP (or carry): Write 2 under the ones column and carry 1 to the tens column.

Hundreds	Tens	Ones
1	¹ 2	8
+	3	4
		2

$$8 + 4 = 12$$

Write 2 in the ones column and carry 1 on the tens column.

3. Add the tens digits and the carry. ($2 + 3 + 1 = 6$)
4. Bring down the hundreds digit.

Hundreds	Tens	Ones
1	¹ 2	8
+	3	4
1	6	2

How about this: Find the sum 137 and 72.

1. Add the ones digit: ($7 + 2 = 9$)
2. Add the tens digit. ($3 + 7 = 10$)
We need to REGROUP.
3. Add the hundreds digit and the carry.

Hundreds	Tens	Ones
¹ 1	3	7
+	7	2
2	0	9

$$\begin{array}{r} 15) \quad 221 \\ + 29 \\ \hline \end{array}$$

$$\begin{array}{r} 20) \quad 244 \\ + 48 \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad 234 \\ + 39 \\ \hline \end{array}$$

$$\begin{array}{r} 21) \quad 245 \\ + 35 \\ \hline \end{array}$$

$$\begin{array}{r} 17) \quad 236 \\ + 44 \\ \hline \end{array}$$

$$\begin{array}{r} 22) \quad 248 \\ + 33 \\ \hline \end{array}$$

$$\begin{array}{r} 18) \quad 241 \\ + 49 \\ \hline \end{array}$$

$$\begin{array}{r} 23) \quad 259 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 19) \quad 243 \\ + 47 \\ \hline \end{array}$$

$$\begin{array}{r} 24) \quad 264 \\ + 27 \\ \hline \end{array}$$





ARAL Math Grade 3 Worksheet 10 (Part 1)

ADDITION OF THREE-DIGIT BY THREE-DIGIT NUMBER WITHOUT REGROUPING

Consider : $134 + 145 = \underline{\quad}$

In adding three-digit numbers without regrouping, line up the ones digits in the rightmost column. Add the ones digits. Add the tens digits. Add the hundreds digits.

	Hundreds	Tens	Ones
	1	3	4
+	1	4	5
	2	7	9

Answer: $134 + 145 = \underline{279}$

Find the sum of the following equations.

1)
$$\begin{array}{r} 165 \\ + 224 \\ \hline \end{array}$$

3)
$$\begin{array}{r} 406 \\ + 502 \\ \hline \end{array}$$

2)
$$\begin{array}{r} 502 \\ + 344 \\ \hline \end{array}$$

4)
$$\begin{array}{r} 682 \\ + 214 \\ \hline \end{array}$$

5)
$$\begin{array}{r} 101 \\ + 824 \\ \hline \end{array}$$

10)
$$\begin{array}{r} 406 \\ + 143 \\ \hline \end{array}$$

6)
$$\begin{array}{r} 187 \\ + 101 \\ \hline \end{array}$$

11)
$$\begin{array}{r} 471 \\ + 110 \\ \hline \end{array}$$

7)
$$\begin{array}{r} 824 \\ + 163 \\ \hline \end{array}$$

12)
$$\begin{array}{r} 245 \\ + 204 \\ \hline \end{array}$$

8)
$$\begin{array}{r} 624 \\ + 122 \\ \hline \end{array}$$

13)
$$\begin{array}{r} 413 \\ + 510 \\ \hline \end{array}$$

9)
$$\begin{array}{r} 183 \\ + 400 \\ \hline \end{array}$$

14)
$$\begin{array}{r} 846 \\ + 112 \\ \hline \end{array}$$



ARAL Math Grade 3 Worksheet 10 (Part 2)

ADDITION OF THREE-DIGIT BY THREE-DIGIT NUMBER WITH REGROUPING

Consider this: Find the sum of 253 and 347.

In adding three-digit numbers with regrouping, line up the ones digits in the rightmost column. Add the ones digits, regroup if need. Add the tens digits, regroup if needed. Bring down or add the hundreds digits.



1. Add the ones digits. ($3 + 7 = 10$). Since the answer is two digits, we need to REGROUP (or carry):
Write 0 under the ones column and carry 1 to the tens column.

Hundreds	Tens	Ones
2	5	3
+	3	4
		0

2. Add the tens digits and the carry.

$$(5 + 4 + 1 = 10)$$

Write 0 under the ones column and carry 1 to the hundreds column.

Hundreds	Tens	Ones
1	5	3
2	5	3
+	3	4
	0	0

3. Add the hundreds digit and the carry.

$$(2 + 3 + 1 = 6)$$

$$\text{So, } 253 + 347 = 600$$

Hundreds	Tens	Ones
1	5	3
2	5	3
+	3	4
6	0	0

Find the sum.

$$15) \quad \begin{array}{r} 113 \\ + 217 \\ \hline \end{array}$$

$$20) \quad \begin{array}{r} 132 \\ + 238 \\ \hline \end{array}$$

$$16) \quad \begin{array}{r} 116 \\ + 219 \\ \hline \end{array}$$

$$21) \quad \begin{array}{r} 138 \\ + 244 \\ \hline \end{array}$$

$$17) \quad \begin{array}{r} 124 \\ + 226 \\ \hline \end{array}$$

$$22) \quad \begin{array}{r} 145 \\ + 247 \\ \hline \end{array}$$

$$18) \quad \begin{array}{r} 125 \\ + 228 \\ \hline \end{array}$$

$$23) \quad \begin{array}{r} 147 \\ + 248 \\ \hline \end{array}$$

$$19) \quad \begin{array}{r} 127 \\ + 229 \\ \hline \end{array}$$

$$24) \quad \begin{array}{r} 162 \\ + 249 \\ \hline \end{array}$$





ARAL Math Grade 3 Worksheet 11 (Part 1)

Answer the following problems.			
110 oranges are in the basket. 25 more oranges are put in the basket. How many oranges are in the basket now?	1)	Emie had 216 chocolate coins. Arvin had 48 chocolate coins. How many coins did they have in all?	6)
Leni bought 307 shirts for an orphanage. She bought 210 shirts for another orphanage. How many did she buy altogether?	2)	Mrs. Santos had ₱267 in her wallet. She received ₱185 as payment for baked goods. How much money does she have altogether?	7)
Nico has ₱124 in his coin bank. His lola gave him ₱235 more. How much money does he have now?	3)	Gary plays a game and scores 453 points in the first round and 544 points in the second round. The game is over after the second round. What is his total at the end of the game?	8)
115 plums were in the basket. 24 more plums were added to the basket. How many plums were in the basket now?	4)	Piolo saved ₱349 from his tricycle fares last week. This week he saved ₱278 more. How much has he saved in total?	9)
A vendor earned ₱312 in the morning and ₱256 in the afternoon selling fish balls. How much did she earn for the whole day?	5)	100 red apples and 65 green apples were in the basket. How many apples are there altogether?	10)





ARAL Math Grade 3 Worksheet 11 (Part 2)

There are 167 books in one classroom and 332 books in the other. How many books are there altogether in both classroom?	11)	Feliz caught 357 fish. Jhun caught 145 fish. How many fish did they catch in all?	17)
Reina was picking leaves up from her yard. She picked up 324 leaves off the grass. Aries's dad was helping her and only picked up 142 leaves. How many leaves did they pick up together?	12)	The school library bought four hundred new books last years. They bought sixty-five new book this year. How many books did they buy altogether?	18)
Chester's assignment this weekend is to read a book. On Saturday, he read 324 pages. On Sunday, he read 56 pages only. How many pages was he able to read?	13)	Dave read the first two hundred eight pages of a book. There are fifty-eight pages left to read. How many pages does the book have in total?	19)
Marianne sold 580 cookies. Abram sold 119 cookies. How many cookies did they sell in all?	14)	There are two hundred twenty-eight people riding the first train. Another seventy-one people are on the second train. How many people are there on both trains?	20)
Wesley's farm grew seven hundred eighty-nine pumpkins. Mang Ambo's farm grew forty-five. How many pumpkins did they grow altogether?	15)	There are 230 lions and 140 tigers in the forest. There are the only wild animals in the forest. Find the total of the wild animals in the forest.	21)
Rae's farm grew 692 watermelons last year. His farm grew 269 this year. How many watermelons did he grow in both years?	16)	Cathy's apple orchard grew 338 apple last month. This month her orchard grew another 324 apples. How many apples did she get from her orchard on both months combined?	22)





ARAL Math Grade 3 Worksheet 12 (Part 1)

SUBTRACTION OF THREE-DIGIT BY TWO-DIGIT NUMBERS WITHOUT REGROUPING

In subtracting three-digit by two-digit numbers without regrouping, vertically line-up the numbers where the ones digits are in the rightmost column. Find the difference following these steps:



1. Subtract the ones digits.
2. Subtract the tens digits.
3. Bring down the hundreds digit.

Consider this: $456 - 24 =$

Hundreds	Tens	Ones
4	5	6
-	2	4
4	3	2

Find the difference.

$$\begin{array}{r} 1) \quad 157 \\ - 12 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 145 \\ - 13 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 196 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 155 \\ - 25 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 158 \\ - 18 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 258 \\ - 35 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 167 \\ - 21 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 288 \\ - 33 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 179 \\ - 25 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 225 \\ - 15 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 267 \\ - 25 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 277 \\ - 24 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 264 \\ - 14 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 239 \\ - 19 \\ \hline \end{array}$$





ARAL Math Grade 3 Worksheet 12 (Part 2)

SUBTRACTION OF THREE-DIGIT BY TWO-DIGIT NUMBERS WITH REGROUPING

A. In subtracting three-digit and two-digit numbers, we do regrouping when the ones digit of the subtrahend is greater than the ones digit of the minuend. (Remember, regrouping means borrowing one ten on the value of the tens digit and adding this to the ones digit of the minuend.)

Ex. $255 - 49$

Follow these steps:

1. Borrow one ten from the value of the tens digit which is 50)
2. Rewrite the new tens digit. (Subtract one on the tens digit)

5 tens become
4 tens

Hundreds	Tens	Ones
2	5	5
-	4	9

1 ten = 10

Add to the ones:
 $10 + 5 = 15$

3. Subtract the ones column, subtract the tens column and bring down the hundreds.

Hundreds	Tens	Ones
2	5	5
-	4	9
2	0	6

Find the difference.

$$\begin{array}{r} 15) \quad 134 \\ - \quad 27 \\ \hline \end{array}$$

$$\begin{array}{r} 20) \quad 247 \\ - \quad 29 \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad 135 \\ - \quad 26 \\ \hline \end{array}$$

$$\begin{array}{r} 21) \quad 252 \\ - \quad 33 \\ \hline \end{array}$$

$$\begin{array}{r} 17) \quad 148 \\ - \quad 39 \\ \hline \end{array}$$

$$\begin{array}{r} 22) \quad 282 \\ - \quad 46 \\ \hline \end{array}$$

$$\begin{array}{r} 18) \quad 143 \\ - \quad 24 \\ \hline \end{array}$$

$$\begin{array}{r} 23) \quad 281 \\ - \quad 27 \\ \hline \end{array}$$

$$\begin{array}{r} 19) \quad 145 \\ - \quad 28 \\ \hline \end{array}$$

$$\begin{array}{r} 24) \quad 224 \\ - \quad 16 \\ \hline \end{array}$$





ARAL Math Grade 3 Worksheet 13

Answer the following problems.		
Nica had 74 coins. After spending 20 coins on a football, how many coins does she have left?	1)	Gerard has 45 cents and his brother, Allen has 79 cents. How much more money does Allen have than Gerard? 6)
Elmer's high school played 54 baseball games this year. He attended 23 games. How many baseball games did Elmer miss?	2)	Nardo saved ₱780 from his allowance. He spent ₱225 on new school shoes. How much of his savings is left? 7)
Aling Fe had ₱950 in her cash box. She used ₱684 to buy ingredients for her turon business. How much money is left in her cash box??	3)	There were 77 sports books. Sadly, 29 were ruined in a flood. How many are left? 8)
There are thirty-nine pencils in the drawer. Sam took sixteen pencils from the drawer. How many pencils are now in the drawer?	4)	A canteen had ₱899 in sales for the week. ₱543 was used to pay the supplier. How much money remains? 9)
Lawrence had 74 baseball cards. Then, he gave his friend 29 of them. How many does he have left?	5)	The ice cream shop had 45 ice cream to sell. The cashier sold 21 ice cream cones. How many ice cream cones are left? 10)





ARAL Math Grade 3 Worksheet 14 (Part 1)

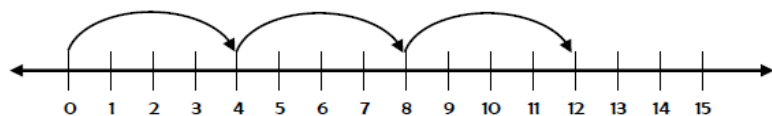
Write a multiplication sentence for each.		Write a multiplication sentence for each.	
4 fives	1) _____ x _____ = _____	$4 + 4 + 4 + 4$	11) _____ x _____ = _____
3 fours	2)	$7 + 7 + 7 + 7 + 7$	12)
2 eights	3)	$1 + 1 + 1$	13)
6 fives	4)	$9 + 9 + 9 + 9 + 9$	14)
4 twos	5)	$5 + 5 + 5 + 5 + 5$	15)
5 nines	6)	$8 + 8 + 8 + 8$	16)
10 ones	7)	$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2$	17)
1 seven	8)	$4 + 4 + 4 + 4 + 4 + 4 + 4 + 4$	18)
7 fours	9)	$3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3$	19)
3 fives	10)	$6 + 6 + 6 + 6$	20)



ARAL Math Grade 3 Worksheet 14 (Part 2)

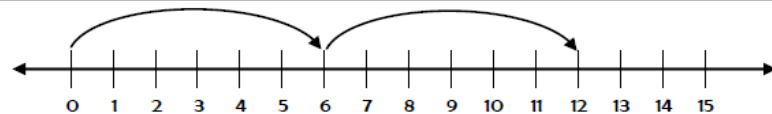
Fill in the blanks using the number lines given.

21)



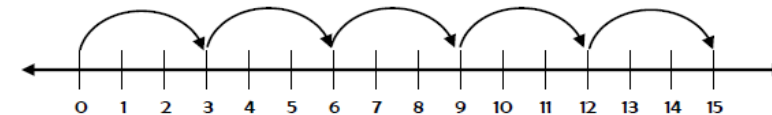
$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

22)



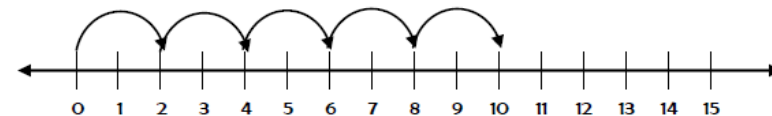
$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

23)



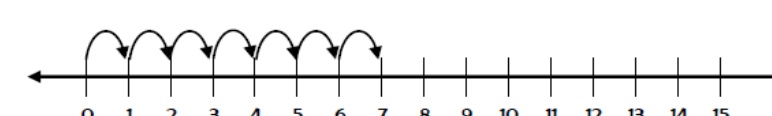
$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

24)



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

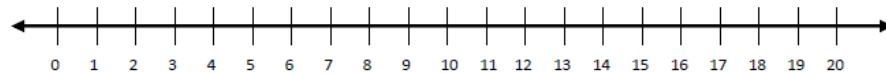
25)



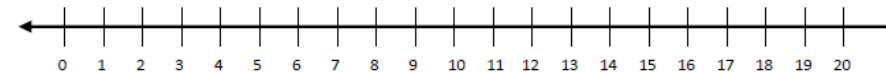
$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

Draw the arrows on the number line for each multiplication statement and find the product.

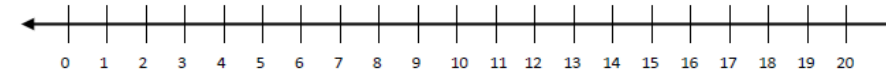
26) $9 \times 2 = \underline{\quad}$



27) $2 \times 8 = \underline{\quad}$



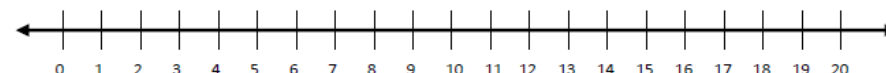
28) $6 \times 3 = \underline{\quad}$



29) $4 \times 5 = \underline{\quad}$



30) $1 \times 10 = \underline{\quad}$





ARAL Math Grade 3 Worksheet 15 (Part 1)

MULTIPLICATION

Multiplication is a way of putting together sets with equal number of objects.

PROPERTIES OF MULTIPLICATION

1) COMMUTATIVE PROPERTY (CPM)

- The order of the factors does not change the product

$$2 \times 6 = 6 \times 2$$

$$12 = 12$$

2) ASSOCIATIVE PROPERTY (APM)

- The way the factors are grouped does not change the product

$$(4 \times 2) \times 3 = 4 \times (2 \times 3)$$

$$24 = 24$$

3) IDENTITY PROPERTY (IPM)

- The product of any number and 1 equals the number

$$45 \times 1 = 45$$

$$1 \times 45 = 45$$

4) ZERO PROPERTY (ZPM)

- The product of any number and zero equals zero.

$$75 \times 0 = 0$$

$$0 \times 75 = 0$$

5) DISTRIBUTIVE PROPERTY (DPM)

- To multiply a sum by a number, we can also multiply each addend by the number and add the products.

Illustration:

$$\begin{aligned} 3 \times (5 + 4) &= (3 \times 5) + (3 \times 4) \quad - 3 \text{ is distributed} \\ &= 15 + 12 \\ &= 27 \end{aligned}$$



Write the property illustrated by the following.

$$7 \times (4 \times 9) = (7 \times 4) \times 9$$

1)

$$2 \times 3 = 3 \times 2$$

2)

$$453 \times 1 = 453$$

3)

$$4 \times (30 + 5) = (4 \times 30) + (4 \times 5)$$

4)

$$19 \times 1 = 19$$

5)

$$8 \times 17 = 17 \times 8$$

6)

$$89 \times 0 = 0$$

7)

$$(4 \times 3) \times 2 = 4 \times (3 \times 2)$$

8)

$$(2 + 8) \times 9 = (9 \times 2) + (9 \times 8)$$

9)

$$97 \times 0 = 0$$

10)





ARAL Math Grade 3 Worksheet 15 (Part 2)

Identify the property illustrated in each multiplication statement and write the missing number.				PROPERTY	MISSING NUMBER
	PROPERTY	MISSING NUMBER	$67 \times 0 = \underline{\quad}$	25)	32)
$179 \times 1 = \underline{\quad}$	11)	18)	$3 \times 11 = 11 \times \underline{\quad}$	26)	33)
$28 \times 15 = 15 \times \underline{\quad}$	12)	19)	$\underline{\quad} \times 1 = 95$	27)	34)
$175 \times \underline{\quad} = 0$	13)	20)	$9 \times (2 \times 4) = (9 \times 2) \times \underline{\quad}$	28)	35)
$10 \times (3 + 9) = (10 \times 3) + (\underline{\quad} \times 9)$	14)	21)	$(7 \times 3) \times 5 = \underline{\quad} \times (3 \times 5)$	29)	36)
$4 \times (6 \times 2) = (4 \times \underline{\quad}) \times 2$	15)	22)	$2 \times (3 + 4) = (2 \times 3) + (2 \times \underline{\quad})$	30)	37)
$255 \times \underline{\quad} = 255$	16)	23)	$59 \times \underline{\quad} = 0$	31)	38)
$7 \times (8 + 2) = (\underline{\quad} \times 8) + (7 \times 2)$	17)	24)			





ARAL Math Grade 3 Worksheet 16 (Part 1)

Find the product.	
5 x 5 = _____	1)
2 x 5 = _____	2)
1 x 3 = _____	3)
4 x 3 = _____	4)
7 x 2 = _____	5)
6 x 2 = _____	6)
8 x 10 = _____	7)
3 x 10 = _____	8)
9 x 5 = _____	9)
10 x 5 = _____	10)

Multiplication Facts of 2	Multiplication Facts of 5
1 x 2 = 2	1 x 5 = 5
2 x 2 = 4	2 x 5 = 10
3 x 2 = 6	3 x 5 = 15
4 x 2 = 8	4 x 5 = 20
5 x 2 = 10	5 x 5 = 25
6 x 2 = 12	6 x 5 = 30
7 x 2 = 14	7 x 5 = 35
8 x 2 = 16	8 x 5 = 40
9 x 2 = 18	9 x 5 = 45
10 x 2 = 20	10 x 5 = 50

Multiplication Facts of 3	Multiplication Facts of 10
1 x 3 = 3	1 x 10 = 10
2 x 3 = 6	2 x 10 = 20
3 x 3 = 9	3 x 10 = 30
4 x 3 = 12	4 x 10 = 40
5 x 3 = 15	5 x 10 = 50
6 x 3 = 18	6 x 10 = 60
7 x 3 = 21	7 x 10 = 70
8 x 3 = 24	8 x 10 = 80
9 x 3 = 27	9 x 10 = 90
10 x 3 = 30	10 x 10 = 100



ARAL Math Grade 3 Worksheet 16 (Part 2)

Multiplication by 4 is counting objects in groups of 4. It is also just like skip counting by 4s.

Multiplication Facts of 4

$1 \times 4 = 4$	$6 \times 4 = 24$
$2 \times 4 = 8$	$7 \times 4 = 28$
$3 \times 4 = 12$	$8 \times 4 = 32$
$4 \times 4 = 16$	$9 \times 4 = 36$
$5 \times 4 = 20$	$10 \times 4 = 40$

Write a multiplication statement for each.

$5 \times 4 = \underline{\hspace{2cm}}$	11)	$6 \times 4 = \underline{\hspace{2cm}}$	16)
$2 \times 4 = \underline{\hspace{2cm}}$	12)	$8 \times 4 = \underline{\hspace{2cm}}$	17)
$1 \times 4 = \underline{\hspace{2cm}}$	13)	$3 \times 4 = \underline{\hspace{2cm}}$	18)
$4 \times 4 = \underline{\hspace{2cm}}$	14)	$9 \times 4 = \underline{\hspace{2cm}}$	19)
$7 \times 4 = \underline{\hspace{2cm}}$	15)	$10 \times 4 = \underline{\hspace{2cm}}$	20)
		$4 \times 2 = \underline{\hspace{2cm}}$	21)
		$4 \times 10 = \underline{\hspace{2cm}}$	22)
		$4 \times 8 = \underline{\hspace{2cm}}$	23)
		$4 \times 3 = \underline{\hspace{2cm}}$	24)
		$4 \times 5 = \underline{\hspace{2cm}}$	25)





ARAL Math Grade 3 Worksheet 17 (Part 1)

Division

Division means grouping objects equally.



There are 20 pencils. How many groups of 4 pencils are there?



There are 5 groups of 4 pencils.

The division sentence for this is:

$$\begin{array}{ccccccc} 20 & \div & 4 & = & 5 \\ \uparrow & & \uparrow & & \uparrow \\ \text{dividend} & & \text{divisor} & & \text{quotient} \end{array}$$

Division is also the inverse of multiplication.

$$4 \times 5 = 20 \longrightarrow 20 \div 5 = 4 \text{ or } 20 \div 4 = 5$$

Complete the sentences for each picture.

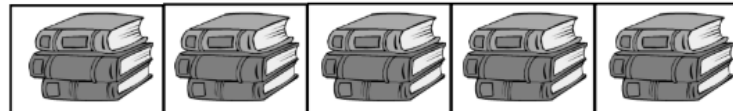
1)



There are ____ groups of 2 in 6.

$$____ \div 2 = ____$$

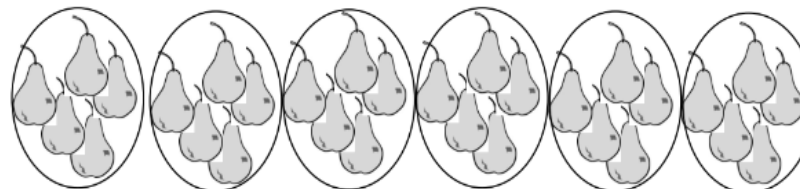
2)



There are ____ groups of 3 in 15.

$$____ \div 3 = ____ .$$

3)



There are ____ groups of 5 in 30.

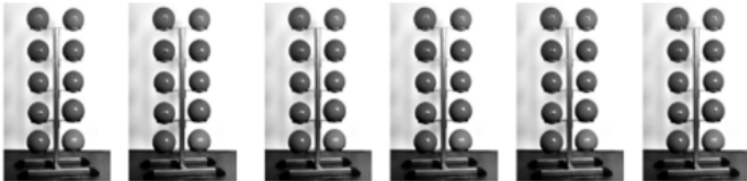
$$____ \div 5 = ____ .$$





ARAL Math Grade 3 Worksheet 17 (Part 2)

4)



There are ____ groups of 10 in 60.

____ ÷ 10 = ____

Box the objects in sets of four then write a division sentence for each.

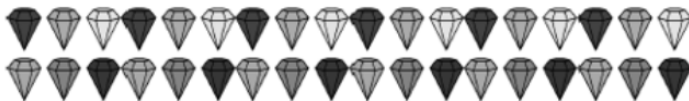
5)



There are ____ groups of 4 in 16.

____ ÷ ____ = ____

6)



There are ____ groups of 4 in 36.

____ ÷ ____ = ____

Write the division sentence for each.

10 - 2 - 2 - 2 - 2 - 2 = 0

7) ____ ÷ ____ = ____

15 - 5 - 5 - 5 = 0

8) ____ ÷ ____ = ____

40 - 10 - 10 - 10 - 10 = 0

9) ____ ÷ ____ = ____

18 - 3 - 3 - 3 - 3 - 3 - 3 = 0

10) ____ ÷ ____ = ____

16 - 4 - 4 - 4 - 4 = 0

11) ____ ÷ ____ = ____

20 - 10 - 10 = 0

12) ____ ÷ ____ = ____

14 - 2 - 2 - 2 - 2 - 2 - 2 - 2 = 0

13) ____ ÷ ____ = ____

30 - 5 - 5 - 5 - 5 - 5 - 5 = 0

14) ____ ÷ ____ = ____

15 - 3 - 3 - 3 - 3 - 3 = 0

15) ____ ÷ ____ = ____

24 - 4 - 4 - 4 - 4 - 4 - 4 = 0

16) ____ ÷ ____ = ____





ARAL Math Grade 3 Worksheet 18 (Part 1)

Write two division sentence for each.		Fill in the missing factor to complete each division sentence.	
$5 \times 7 = 35$	1) _____ $\div$ _____ = _____ 2) _____ $\div$ _____ = _____	13) $5 \times$ _____ = 20	so $20 \div 5 =$ _____
$8 \times 2 = 16$	3) _____ $\div$ _____ = _____ 4) _____ $\div$ _____ = _____	14) _____ $\times 7 = 28$	so $28 \div 4 =$ _____
$4 \times 5 = 20$	5) _____ $\div$ _____ = _____ 6) _____ $\div$ _____ = _____	15) $2 \times$ _____ = 12	so $12 \div 2 =$ _____
$10 \times 5 = 50$	7) _____ $\div$ _____ = _____ 8) _____ $\div$ _____ = _____	16) $9 \times$ _____ = 36	so $36 \div 4 =$ _____
$4 \times 6 = 24$	9) _____ $\div$ _____ = _____ 10) _____ $\div$ _____ = _____	17) _____ $\times 3 = 24$	so $24 \div 3 =$ _____
$3 \times 9 = 27$	11) _____ $\div$ _____ = _____ 12) _____ $\div$ _____ = _____	18) $10 \times$ _____ = 30	so $30 \div 10 =$ _____
		19) _____ $\times 4 = 12$	so $12 \div 4 =$ _____
		20) $8 \times$ _____ = 80	so $80 \div 10 =$ _____



ARAL Math Grade 3 Worksheet 18 (Part 2)

Fill in the missing factor to complete each division sentence.	Write a division sentence for each.	
21) $4 \times \underline{\quad} = 20$ so $20 \div 4 = \underline{\quad}$	How many groups of 3 are there in 15?	29) $\underline{\quad} \div \underline{\quad} = \underline{\quad}$
22) $\underline{\quad} \times 7 = 21$ so $21 \div 3 = \underline{\quad}$	How many sets of 2 are there in 10?	30)
23) $1 \times \underline{\quad} = 10$ so $10 \div 1 = \underline{\quad}$	How many 4s are there in 8?	31)
24) $8 \times \underline{\quad} = 32$ so $32 \div 4 = \underline{\quad}$	How many groups of 5 are there in 10?	32)
25) $\underline{\quad} \times 5 = 30$ so $30 \div 5 = \underline{\quad}$	How many sets of 4 are there in 36?	33)
26) $3 \times \underline{\quad} = 30$ so $30 \div 3 = \underline{\quad}$	How many 10s are there in 40?	34)
27) $\underline{\quad} \times 2 = 18$ so $18 \div 2 = \underline{\quad}$	How many groups of 10 are there in 100?	35)
28) $6 \times \underline{\quad} = 60$ so $60 \div 10 = \underline{\quad}$	How many sets of 3 are there in 24?	36)
	How many 4s are there in 20?	37)
	How many sets of 3 are there in 27?	38)





ARAL Math Grade 3 Worksheet 19 (Part 1)

Give the number sentence for each problem and solve it.

- 1) Eddie has 16 toy cars. He keeps 4 toy cars in each box. How many boxes does he use?

Number Sentence: _____

Solution:

Answer: _____

- 2) Mang Nestor has 24 tomato seeds. He plants 4 seeds for every row of his garden. How many rows are planted with tomato seeds?

Number Sentence: _____

Solution:

Answer: _____

- 3) Elena harvested 30 *rambutans*. She placed 5 *rambutans* in each bag. How many bags did she use?

Number Sentence: _____

Solution:

Answer: _____

- 4) There are 40 apples on the table. Marianne wants to put 10 apples in each basket, how many baskets does she need?

Number Sentence: _____

Solution:

Answer: _____

- 5) There are 35 candies on a jar. Feliz distributes 5 to each of her pupils. How many pupils does she have?

Number Sentence: _____

Solution:

Answer: _____

- 6) Aling Nelia made 20 *sumans*. Each of her vendors gets 2 *sumans* to sell. How many vendors does she have?

Number Sentence: _____

Solution:

Answer: _____

- 7) Marissa made 36 *puto paos*. She packs them in groups of 4. How many packs did she make?

Number Sentence: _____

Solution:

Answer: _____

- 8) Aling Neri makes 16 *polvorons*. She packs them into twos. How many packs will she make?

Number Sentence: _____

Solution:

Answer: _____



ARAL Math Grade 3 Worksheet 19 (Part 2)

Give the number sentence for each problem and solve it.

- 9) There are 45 cups on the table. Willy stacks the cups by fives. How many stacks does he form?

Number Sentence: _____

Solution:

Answer: _____

- 10) Catherine made 27 *humpias*. She fries them in batches of threes. How many times does she have to fry?

Number Sentence: _____

Solution:

Answer: _____

- 11) Forty children are to ride a bump car. Each bump car can carry 4 children. How many bump cars are needed?

Number Sentence: _____

Solution:

Answer: _____

- 12) Mang Edgar delivers sacks of sugar. He can carry 2 sacks at a time. If there are 18 sacks, how many times does he need to deliver them all?

Number Sentence: _____

Solution:

Answer: _____

- 13) Aunt Helen's hen laid 27 eggs. She puts 3 eggs in each basket. How many baskets does she use?

Number Sentence: _____

Solution:

Answer: _____

- 14) Fifteen people are about to ride a tricycle. If a tricycle can carry 3 people, how many tricycles are needed to give them all a ride?

Number Sentence: _____

Solution:

Answer: _____

- 15) On his birthday, Nikolai wants to give away 90 marbles to his friends. If he will put 10 marbles on each loot bags, how many of his friends will receive a give away?

Number Sentence: _____

Solution:

Answer: _____

- 16) Marlon had 30 keys. He bundled them in threes. How many bundles of keys does he have in all?

Number Sentence: _____

Solution:

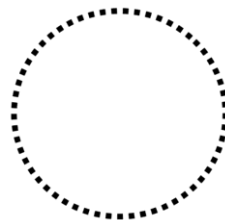
Answer: _____



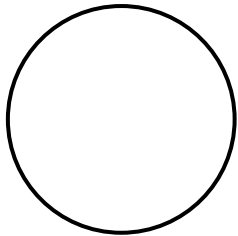
ARAL Math Grade 3 Worksheet 20 (Part 1)

Follow the instructions below.

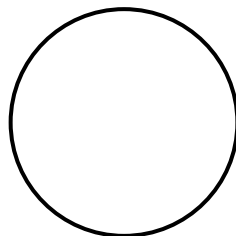
1. Trace the lines to draw a circle.



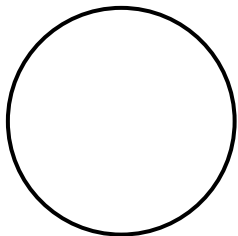
2. Color half of the circle.



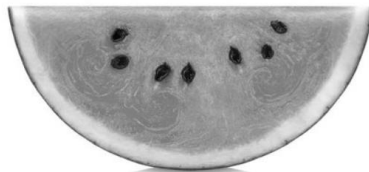
3. Color the quarter of a circle.



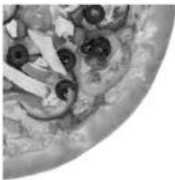
4. Color the whole circle.



Write “H” if the shape is a half circle or “Q” if it is a quarter circle



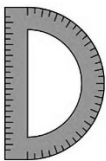
5.



6.



7.



8.



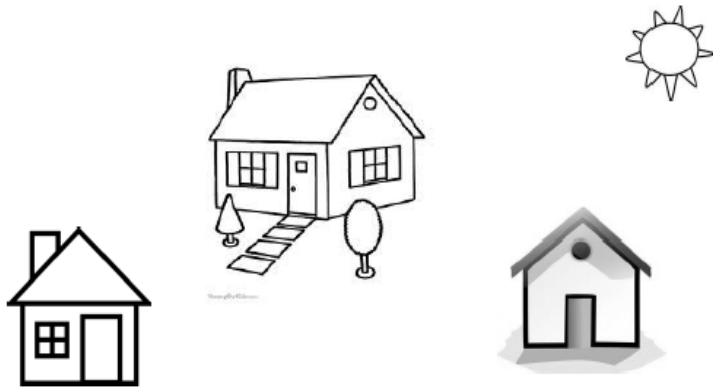
ARAL Math Grade 3 Worksheet 20 (Part 2)

Draw the following.	
9. Half circle	10. Whole circle
11. Quarter circle	12. 2 quarters of a circle
13. 2 halves of a circle	14. Half circle
15. Quarter circle	16. Whole circle



ARAL Math Grade 3 Worksheet 21 (Part 1)

Shapes



What shapes can you see? Shapes are all around us. We see different shapes everyday.

The four basic shapes are circle, square, rectangle and triangle.

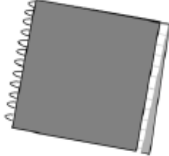
A circle is a perfectly round shape and has no corners.

A square has four sides of same length and four corners.

A rectangle has four sides, two pairs of which are equal. It also has four corners.

A triangle has three sides and three corners.

Name the shape of each object.

	1)		5)
	2)		6)
	3)		7)
	4)		8)



ARAL Math Grade 3 Worksheet 21 (Part 2)

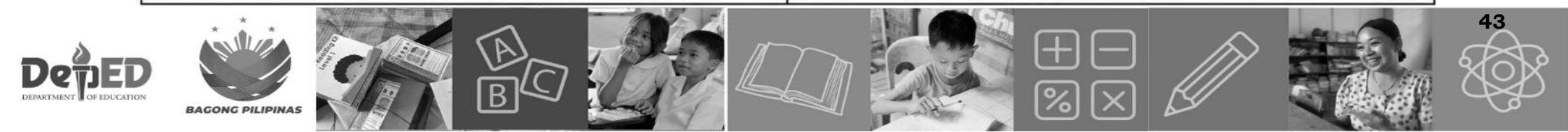
Draw objects that take the shape of a circle.			Draw objects that take the shape of a rectangle.		
9)	10)	11)	15)	16)	17)
Draw objects that take the shape of a square.			Draw objects that take the shape of a triangle.		
12)	13)	14)	18)	19)	20)



ARAL Math Grade 3 Worksheet 22

Determine the missing term/s in a given continuous pattern. Draw the missing term/s in the blank provided.

1) ○ ■ ● ■ ○ ■ _ _	11) ♥ ♥ ★ ★ ♥ ♥ ★ ★ _ _
2) △ △ ● ● △ △ _ _	12) □ ■ ○ ● □ ■ ○ _ _
3) ★ ■ ★ □ ★ ■ _ _	13) ▲ ▲ ○ ○ ▲ ▲ ○ _ _
4) ♥ ▲ ♥ ▲ ♥ ▲ _ _	14) ★ ☆ □ ■ ★ ☆ □ _ _
5) ● ○ ● ○ ● ○ _ _	15) 😊 ☹️ ♥ ♥ 😊 ☹️ ♥ _ _
6) □ ■ △ ▲ □ ■ _ _	16) ◇ ◆ □ ■ ◇ ◆ □ _ _
7) 😊 ♥ 😊 ♥ 😊 ♥ _ _	17) △ ▲ △ ▲ □ ■ □ _ _
8) ◇ ◆ ○ ● ◇ ◆ _ _	18) ● ○ □ ■ ● ○ □ _ _
9) ★ □ ★ ■ ★ □ _ _	19) ♥ ♥ ★ ☆ ♥ ♥ ★ ☆ _ _
10) △ ● △ ● △ ● _ _	20) □ ■ △ ▲ □ ■ △ _ _





ARAL Math Grade 3 Worksheet 23 (Part 1)

Determine the missing term/s in a given continuous pattern. Draw the missing term/s in the blank provided.

1) ○ □ ○ □ ○ □ _ _	11) ♥ ♥♥ ♥ ♥♥♥ ♥ _ _
2) △ △△ △△△ △△△△ _ _	12) ○ ○ ○ ○ ○ _ _
3) □ □ □ □ □ _ _	13) ★★★★★ ★★★★★ ★★★ ★★ _ _
4) → →→ →→→ →→→→ _ _	14) ← ←← ←←← ←←←← _ _
5) ○ ○○ ○○○ ○○○○ _ _	15) △ △ △ △ △ △ _ _
6) ★ ★★ ★★★★★ ★★★★★ _ _	16) □ □ □ □ □ □ □ _ _
7) ↓ ← ↑ → ↓ ← _ _	17) ◇ ◇◇ ◇◇◇ ◇◇◇◇ _ _
8) ○ ○ ○ ○ ○ _ _	18) □ ■ □ ■ □ ■ _ _
9) □ □ □ □ □ □ _ _	19) * ** *** **** _ _
10) △ ▽ △ ▽ △ ▽ _ _	20) → →→ → →→ → _ _



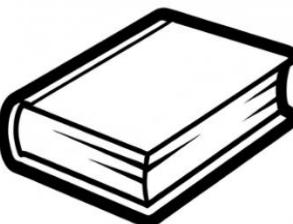
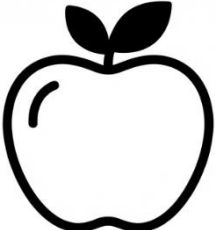
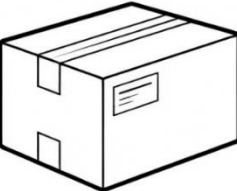
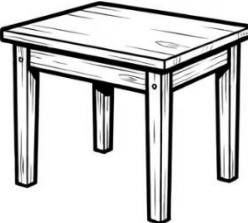
ARAL Math Grade 3 Worksheet 23 (Part 2)

Determine the missing term/s in a given continuous pattern. Draw the missing term/s in the blank provided.

21) ○ □ ○ □ ○ □ _ _	31) □ ◇ ▽ □ ◇ ▽ _ _
22) ○ ○ ○ ○ ○ ○ _ _	32) ⊙ ⊙ ⊖ ⊖ ⊙ ⊙ _ _
23) □ ◇ □ ◇ □ ◇ _ _	33) ↑ → ↓ ← ↑ → _ _
24) → ↗ ↑ ↖ ← ↙ _ _	34) □ ◇ ▽ ◁ □ ◇ _ _
25) ○ ○ ○ ○ ○ _ _	35) ○ ○ ○ ○ ○ ○ ○ _ _
26) ◇ □ ◇ □ ◇ □ _ _	36) △ □ △ □ △ □ _ _
27) ↓ ↘ → ↗ ↑ ↖ _ _	37) ○ □ ○ □ ○ □ _ _
28) △ ○ △ ○ △ ○ _ _	38) ◇ △ ◇ △ ◇ △ _ _
29) □ ○ □ ○ □ ○ _ _	39) ▷ ◁ ▷ ◁ ▷ ◁ _ _
30) △ ▷ ▽ ◁ △ ▷ _ _	40) ← ↖ ↑ ↗ → ↘ _ _



ARAL Math Grade 3 Worksheet 24 (Part 1)

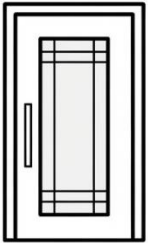
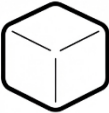
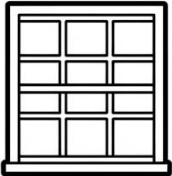
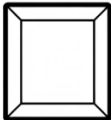
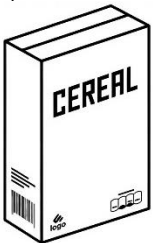
I. Look at each line. Circle whether it is a <i>straight line</i> or a <i>curved line</i> .			II. Study each object. Shade the objects with curved surfaces. Color the objects with flat surfaces.		
1)  straight line curved line	4)  straight line curved line	7)  straight line curved line	10) 	13) 	16) 
2)  straight line curved line	5)  straight line curved line	8)  straight line curved line	11) 	14) 	17) 
3)  straight line curved line	6)  straight line curved line	9)  straight line curved line	12) 	15) 	18) 



ARAL Math Grade 3 Worksheet 24 (Part 2)

III. Look at each object. Put a ✓ on the objects with straight lines. Put an ✕ on the objects with curved lines.

IV. Write FLAT if the object has flat surfaces. Write CURVED if the object has curved surfaces. Write your answer in the space provided.

19) 	22) 	25) 	28)  ice cube _____	31)  vase _____	34)  notebook _____
20) 	23) 	26) 	29)  balloon _____	32)  bowling pin _____	35)  picture frame _____
21) 	24) 	27) 	30)  bucket _____	33)  floor tile _____	36)  corn cob _____



iSinayaan

