Mathematics, Grade 4

Summer Booklet

Student's Name: _____

Academic year: 2017-2018

Worksheet (1)

PRACTICE QUESTIONS:

Question # 1:

1) Write the place value of the underlined digit under each of the numbers.

27 502	71 918	132 825	749 327	28 176
500				

513 295	834 247	36 429	625 231	917 438

2) Write these numbers in expanded form.

13 459 = 10 000 + 3 000 + 400 + 50 + 9

35 916 =

132 756 =

849 018 =

3) Write these numbers in standard form.

10 000 + 3 000 + 500 + 80 + 2 = 13 582

80 000 + 7 000 + 600 + 90 + 5 =

100 000 + 40 000 + 9 000 + 400 + 50 + 3 =

200 000 + 60 000 + 800 + 70 + 4 =

600 000 + 9 000 + 400 + 90 =

CHALLENGE 1

Write the correct value of each number next to each number written in words.

Now put the numbers in the correct place in the number puzzle.

There are some clues in the number puzzle to help you know where each number goes.

Put the numbers in order, from biggest to smallest.

Twenty four thousand thirty six _____

One hundred ninety four thousand five hundred eight _____

Six million one hundred three thousand two hundred forty nine _____

Fifty thousand, eight hundred ninety four _____

~~**Three hundred twenty nine thousand, one hundred one**~~ **329 101**

Nine hundred twenty thousand, forty five _____

Seven hundred five thousand, two hundred forty eight _____

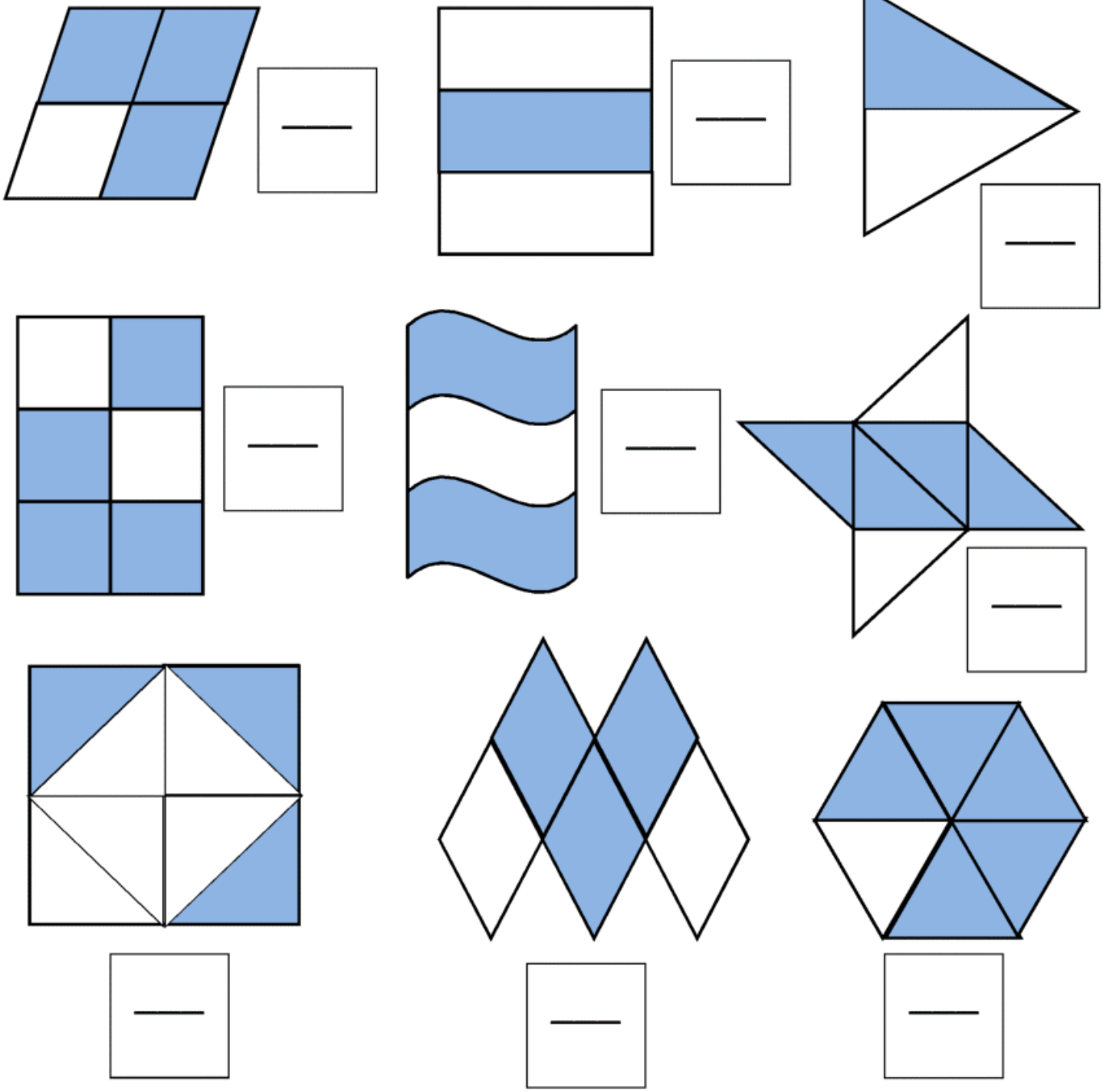
3	2	9	1	0	1		
5						1	
			2				
							9
		0			4		

ORDERING
biggest 6,103,249
smallest

Worksheet (2)

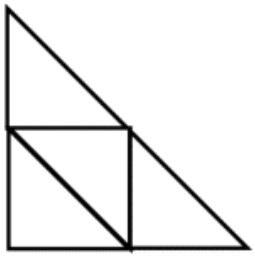
PRACTICE QUESTIONS:

Write the correct fraction of each shape which has been shaded.

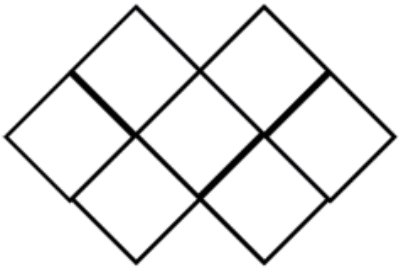


Shade the correct fraction of each shape.

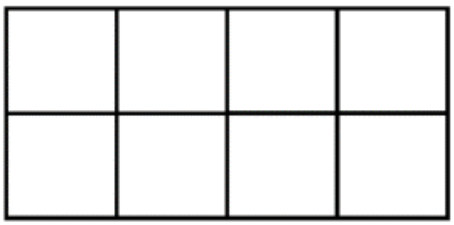
Remember ¼ means 1 *out of every* 4!



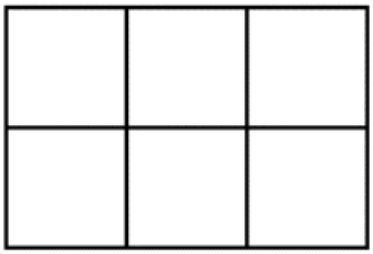
Shade ½



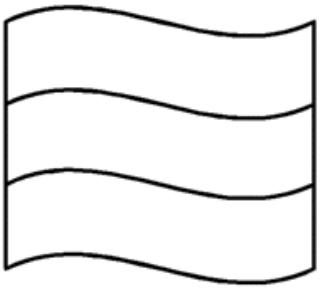
Shade $\frac{4}{7}$



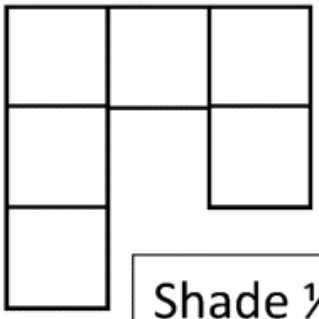
Shade ¼



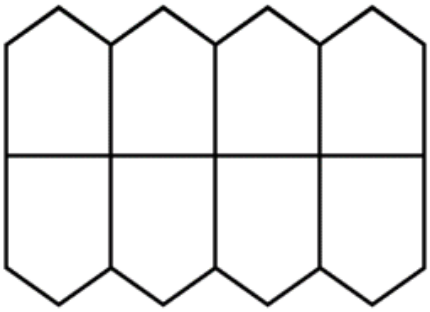
Shade $\frac{1}{3}$



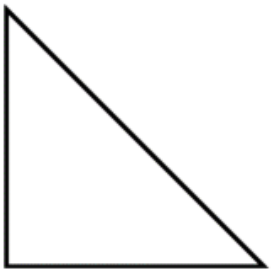
Shade $\frac{2}{3}$



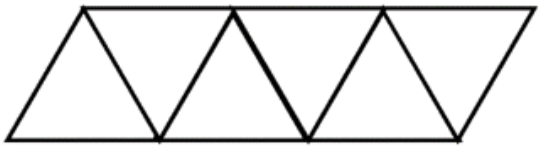
Shade ½



Shade ¾



Shade ½



Shade $\frac{2}{3}$

All the fractions have the same denominator.

All you need to do is to add the two numerators up and keep the denominator the same!

1) $\frac{5}{8} + \frac{7}{8} = \frac{\quad}{\quad}$

2) $\frac{3}{7} + \frac{6}{7} = \frac{\quad}{\quad}$

3) $\frac{2}{5} + \frac{7}{5} = \frac{\quad}{\quad}$

4) $\frac{2}{10} + \frac{7}{10} = \frac{\quad}{\quad}$

5) $\frac{5}{9} + \frac{\quad}{\quad} = \frac{7}{9}$

6) $\frac{1}{6} + \frac{\quad}{\quad} = \frac{4}{6}$

7) $\frac{\quad}{\quad} + \frac{2}{3} = \frac{4}{3}$

8) $\frac{4}{8} + \frac{\quad}{\quad} = \frac{9}{8}$

9) $\frac{\quad}{\quad} + \frac{4}{10} = \frac{11}{10}$

10) $\frac{4}{7} + \frac{\quad}{\quad} = \frac{9}{7}$

11) $\frac{13}{10} - \frac{7}{10} = \frac{\quad}{10}$

12) $\frac{9}{5} - \frac{6}{5} = \frac{\quad}{5}$

13) $\frac{11}{12} - \frac{8}{12} = \frac{\quad}{12}$

14) $\frac{10}{6} - \frac{3}{6} = \frac{\quad}{6}$

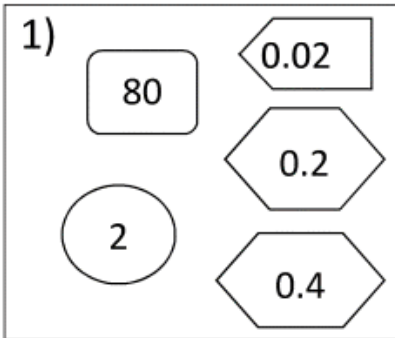
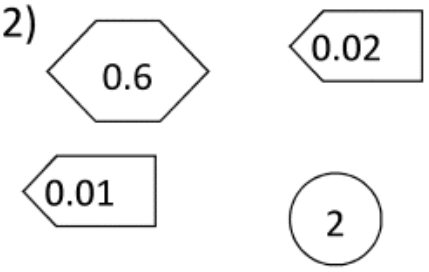
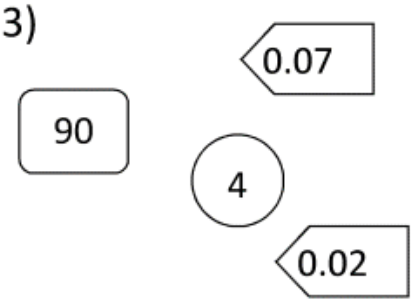
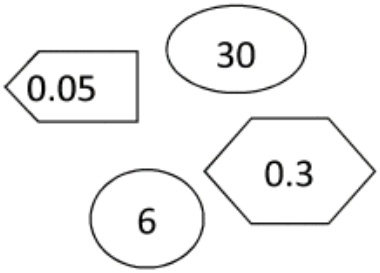
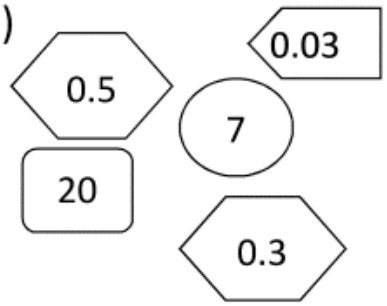
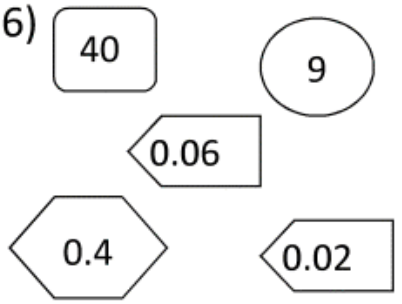
15) $\frac{11}{9} - \frac{4}{9} = \frac{\quad}{9}$

16) $\frac{11}{11} - \frac{7}{11} = \frac{\quad}{11}$

Worksheet (3)

PRACTICE QUESTIONS:

Count the total in each box.

1) 	2) 	3) 
How many?	How many?	How many?
4) 	5) 	6) 
How many?	How many?	How many?

7) 3 TENTHS + 7 HUNDREDTHS	8) 7 TENS + 6 TENTHS + 3 HUNDREDTHS	9) 3 HUNDREDTHS + 3 TENTHS + 6 ONES
How many?	How many?	How many?

10) 2 TENS + 3 HUNDREDTHS	11) 2 TENTHS + 9 ONES 4 HUNDREDTHS	12) 18 TENS + 2 TENTHS + 7 HUNDREDTHS
How many?	How many?	How many?

13) 8 ONES + 4 TENS + 3 HUNDREDTHS	14) 5 TENS + 2 ONES 7 HUNDREDTHS	15) 19 ONES + 6 TENTHS + 3 HUNDREDTHS
How many?	How many?	How many?

13) 8 ONES + 4 TENS + 3 HUNDREDTHS	14) 5 TENS + 2 ONES 7 HUNDREDTHS	15) 19 ONES + 6 TENTHS + 3 HUNDREDTHS
How many?	How many?	How many?

Use your place value knowledge to work out the totals.
Remember to count from the largest value digit first.

1) 0.4 + 0.02 = _____
2) 0.8 + 0.07 = _____
3) 4 + 0.3 + 0.02 = _____
4) 7 + 0.7 + 0.05 = _____
5) 4 + 0.09 = _____
6) 20 + ____ + 0.7 = 20.76
7) ____ + 0.08 + 3 = 3.28
8) 7 + 0.3 + ____ = 7.39
9) 32 + ____ = 32.26
10) 46 + ____ = 46.35

CHALLENGE 2

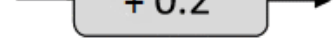
1)	6 + 0.8 =	
2)	What is the value of the digit 4 in the number 825.47?	
3)	5 + 0.3 + 0.06 =	
4)	0.27 = _____ hundredths	
5)	5.3 + 1.7 =	
6)	0.6 + ___ = 1	
7)	3.9 = 3 + ____	
8)	12 + 0.4 + 0.08 =	
9)	7.32 = 7 + ____ + 0.02	
10)	1 ÷ 10 = _____ (decimal) or _____ (fraction)	
11)	Use the symbol >, < or = 8.47 ___ 8.24	
12)	How many tenths make a whole?	
13)	Which is bigger: 4 tenths or 15 hundredths?	
14)	1 ÷ 100 = _____ (decimal) or _____ (fraction)	
15)	What is the value of the digit 6 in the number 793.46?	
16)	3 + 0.02 =	
17)	Use the symbol >, < or = 5.06 ___ 5.3	
18)	1 – 0.4 =	
19)	How many hundredths make a whole?	
20)	35 hundredths =	

Worksheet (4)

PRACTICE QUESTIONS:

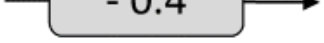
Have a look at these number machines and use your decimal knowledge to fill in the missing numbers. Remember 10 tenths = 1 one (or 1 whole).

1)



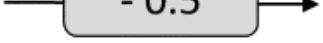
0.8	0.6
1	0.8
1.6	
2.5	
3.2	
7.1	
8.4	

2)



0.8	0.4
1	
1.6	
2.5	
3.2	
7.1	
8.4	

3)



0.8	0.3
1	
1.6	
2.5	
3.2	
7.1	
8.4	

Change from fractions to decimal numbers or vice.

1) $0.7 = \frac{7}{10}$ 2) $0.3 =$ 3) $0.65 =$

4) $0.24 = \frac{24}{100}$ 5) $0.71 = \frac{71}{100}$ 6) $0.1 =$

7) $0.03 =$ 8) $0.127 =$ 9) $= \frac{91}{100}$

10) $0.714 =$ 11) $0.66 =$ 12) $= \frac{107}{1000}$

Multiply

1) 43.7×3

2) 1.26×34

3) 71.4×42

4) 1.07×25

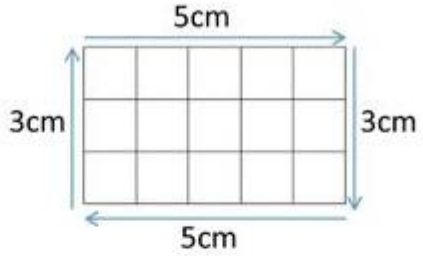
5) 5.32×29

6) 1.05×37

7) 23.14×8

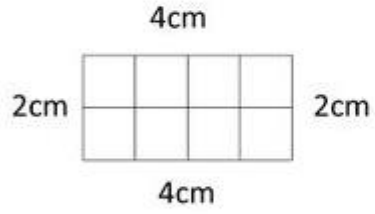
8) 18.67×76

To find the perimeter of a rectangle, simply work out the distance all the way round the outside of the rectangle. The perimeter of the rectangle below is 5 + 3 + 5 + 3 = 16cm.



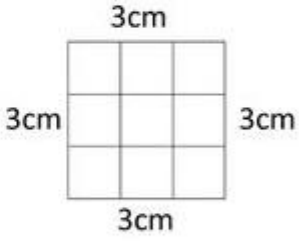
Work out the perimeter of the following rectangles:

1)



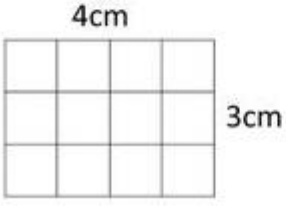
Perimeter = _____ cm

2)



Perimeter = _____ cm

3)



Perimeter = _____ cm

4)

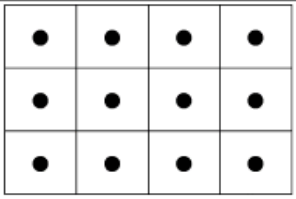
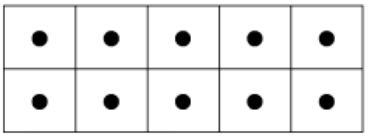
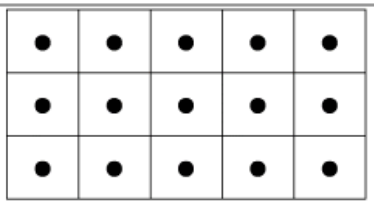
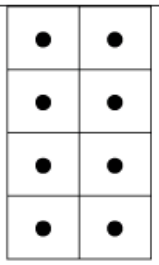
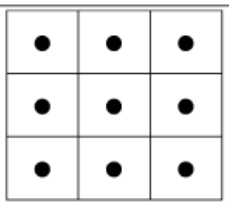
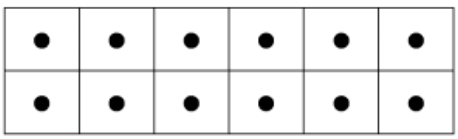
Perimeter = _____ cm

Worksheet (5)

PRACTICE QUESTIONS:

UNDERSTANDING DIVISION

Complete two division sentences for each array. The first one is done for you.

1)		12 divided into groups of 3 is 4 groups. 12 ÷ 3 = 4	12 divided into groups of 4 is 3 groups. 12 ÷ 4 = 3
2)		___ divided into groups of __ is __ groups. ___ ÷ ___ = ___	___ divided into groups of __ is __ groups. ___ ÷ ___ = ___
3)		___ divided into groups of __ is __ groups. ___ ÷ ___ = ___	___ divided into groups of __ is __ groups. ___ ÷ ___ = ___
4)		___ divided into groups of __ is __ groups. ___ ÷ ___ = ___	___ divided into groups of __ is __ groups. ___ ÷ ___ = ___
5)		___ divided into groups of __ is __ groups. ___ ÷ ___ = ___	___ divided into groups of __ is __ groups. ___ ÷ ___ = ___
6)		___ divided into groups of __ is __ groups. ___ ÷ ___ = ___	___ divided into groups of __ is __ groups. ___ ÷ ___ = ___

Use your division table knowledge to answer these related facts.

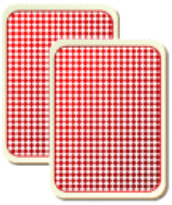
1) 120 ÷ 4 = _____
2) 160 ÷ 2 = _____
3) 180 ÷ 6 = _____
4) 200 ÷ 4 = _____
5) 210 ÷ 3 = _____
6) 150 ÷ 5 = _____
7) 180 ÷ 9 = _____
8) 350 ÷ 5 = _____
9) 320 ÷ 8 = _____
10) 180 ÷ 90 = _____

11) 420 ÷ _____ = 6
12) _____ ÷ 60 = 6
13) _____ ÷ 8 = 60
14) 540 ÷ _____ = 90
15) 630 ÷ _____ = 7
16) _____ ÷ 80 = 7
17) _____ ÷ 50 = 9
18) 720 ÷ _____ = 80
19) 810 ÷ _____ = 9
20) _____ ÷ 6 = 70

DIVISION PROBLEMS

Work out the answers to these division problems involving sharing and grouping.

1) Divide 15 children into teams of 3.
How many teams?



2) Share out 20 cards between 5 people.
How many cards each?

3) Divide 18 eggs into boxes of 6 eggs.
How many boxes can I fill?

4) Newton shares out 26 raffle tickets equally between his 4 friends. He keeps the remaining tickets for himself.
How many tickets do his friends get?
How many tickets does Newton get?

5) A resting dolphin needs to take a breath 3 times a minute.
How many minutes would it take to make 40 breaths?

6) Every 4 minutes, a new car is produced by a car factory.
How many minutes would it take to make 40 cars?

Worksheet (6)

PRACTICE QUESTIONS:

Find each quotient.

$3\,537 \div 9$

$6\,965 \div 7$

$908 \div 2$

$7\,992 \div 8$

$3\,888 \div 4$

$1\,320 \div 4$

$2\,830 \div 5$

$1\,348 \div 4$

$4\,774 \div 7$

1 716 | 78

4 830 | 69

8 820 | 90

2 790 | 45

4 653 | 47

430 | 10

5 049 | 99

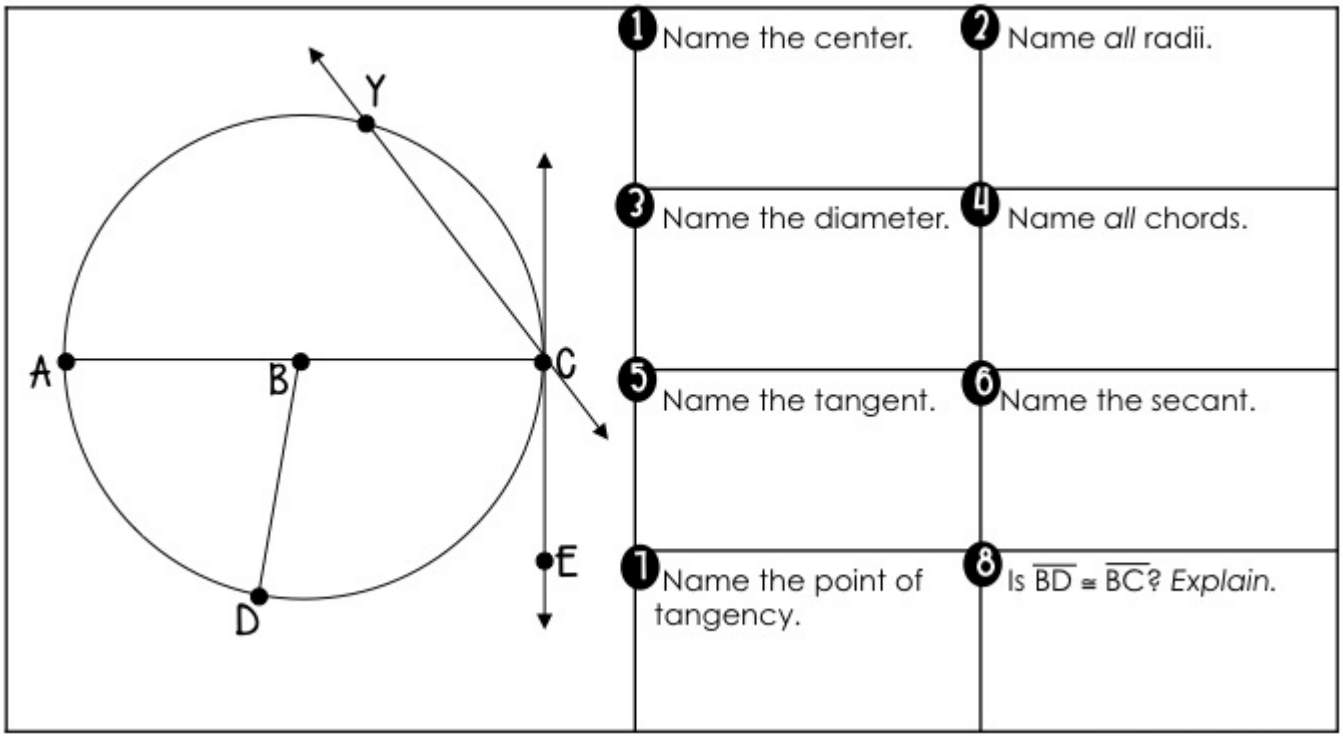
154 | 14

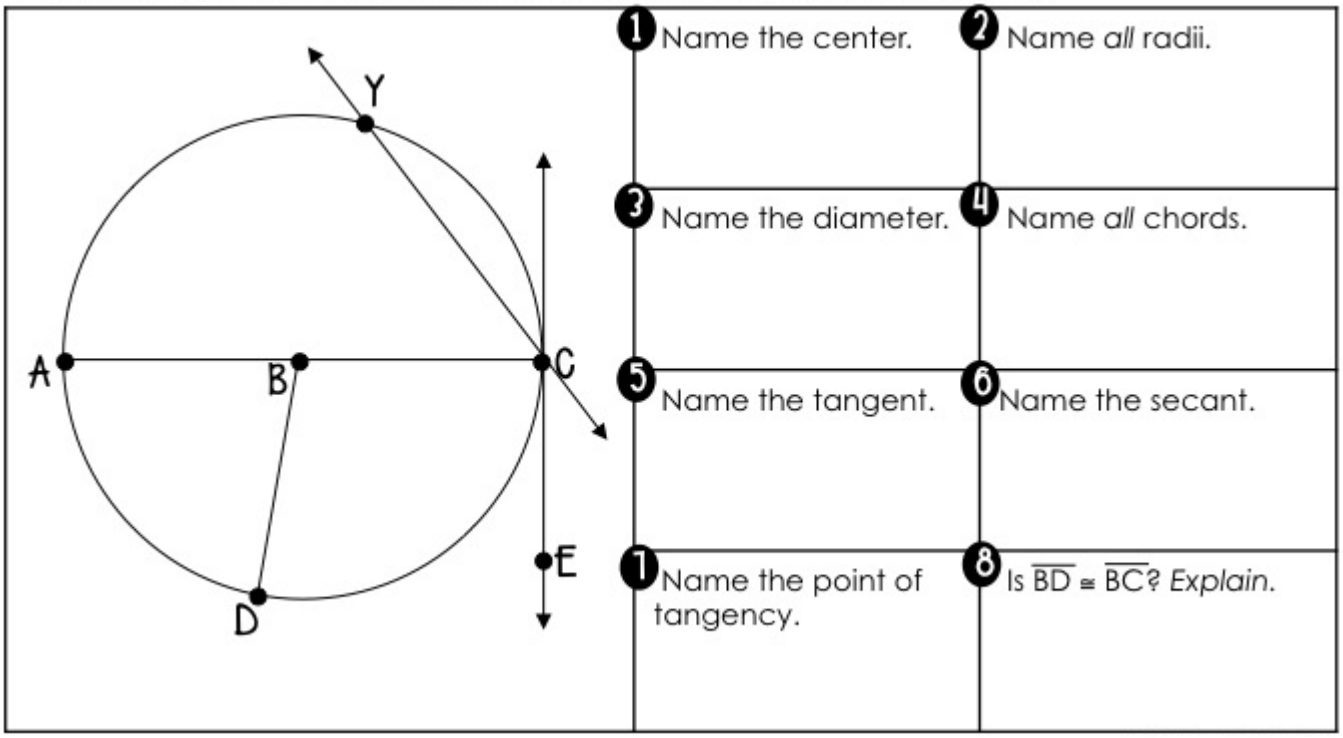
646 | 19

Worksheet (7)

PRACTICE QUESTIONS:

Directions: Refer to ⊙B for questions 1-8. Be sure to use the correct naming.





Worksheet (8)

PRACTICE QUESTIONS:

MATH RIDDLES 4

Select the correct answer from a choice of 8 possibilities.

1) I am a greater than 52 tens.

I am less than half of 1200.

If you round me to the nearest 100, I become 500.

Who am I?

516	540	614	504
563	527	539	963

2) I am not a multiple of 2.

If you round me to the nearest 100, then I will round down not up

I am less than 10 lots of 40.

My ones digit is not a multiple of 3.

Who am I?

138	255	627	435
237	319	97	361

MAKE 100

Use the numbers in the grid each time.

27	45	63	51	84
26	18	74	22	49
55	67	16	82	33

Challenge 1

Find pairs of numbers that add up to 100.

Try to find 6 different pairs.

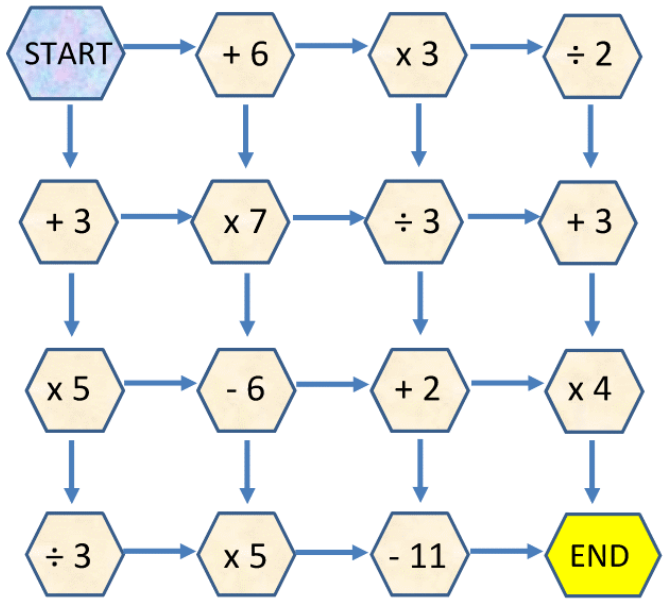
NUMBER MAZE: TARGET 64

Start the maze with zero.

You have to finish the maze with a total of 64.

You must follow one of the arrows each time.

There are two possible routes. Can you find them?



Which route has the highest total?

Which route has the lowest total?