

## 6<sup>th</sup> Grade Math Exit Test

### Whole Numbers

Place Value: Using the diagram below, write the place value of the **bold red underlined** digit.

# Decimal PLACE VALUES

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousands	Ten Thousandths
6	5	4	3	2	1	0	.	1	2	3	4

1.  $2\ 6,278.\underline{9}52$  \_\_\_\_\_ 4.  $3\underline{0},615.441$  \_\_\_\_\_

2.  $9,258,\underline{9}0.07$  \_\_\_\_\_ 5.  $3\underline{6}3.354$  \_\_\_\_\_

3.  $5,363,953.\underline{5}2$  \_\_\_\_\_ 6.  $9,54\underline{7}.16$  \_\_\_\_\_

### Add and Subtract Whole Numbers:

1. $4975$	2. $2533$	3. $2274$	4. $22564$	5. $3337$
$\underline{+ 935}$	$\underline{- 334}$	$\underline{+ 22}$	$\underline{- 4428}$	$\underline{+ 227}$

### Roman Numerals: Write the correct Roman numeral for each one below.

1. five _____	4. Three _____	7. Fourteen _____
2. seven _____	5. Ten _____	8. Six _____
3. two _____	6. Fifteen _____	9. Nine _____

### MULTIPLICATION

1. $3573$	2. $396$	3. $3567$	4. $7352$	5. $3749$
$\underline{\times 32}$	$\underline{\times 3}$	$\underline{\times 26}$	$\underline{\times 54}$	$\underline{\times 3}$

## DIVISION

1.  $3 \overline{)60}$

2.  $4 \overline{)208}$

3.  $8 \overline{)624}$

## TIME: Write the correct time for each of the following

1.



2



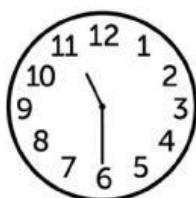
3.



4.

 :

5.

 :

6.

 :

## Elapsed Time:

1. What time will it be in 25 minutes?



2. What time will it be in 10 minutes?



3. What time will it be in 15 minutes?



## Units of Time

1 )  Minutes =  $\frac{1}{2}$  Hour

2 ) 52 Weeks =  Year

3 )  Minutes =  $\frac{1}{4}$  Hour

4 )  $7 \frac{\square}{\square}$  = 1 Week

5 ) 60 Minutes = 1

6 ) 24  = 1 Day

7 ) 52 Weeks = 1

8 ) 52  = 1 Year

9 )  $1 \frac{\square}{\square}$  = 60 Seconds

10 ) 1 Minute = 60

## DECIMALS: Adding and Subtracting

1.  $3.55$   
 $+ .32$

2.  $35.32$   
 $- 2.29$

3.  $83.51$   
 $- 33.18$

4.  $283.42$   
 $+ 68.24$

5.  $3384.53$   
 $+ 287.38$

## FRACTIONS:

### Improper Fractions: Converting Improper fractions to mixed numbers

1 )  $\frac{7}{3} = \square \frac{\square}{\square}$

2 )  $\frac{36}{7} = \square \frac{\square}{\square}$

3 )  $\frac{44}{10} = \square \frac{\square}{\square}$

### Equivalent Fractions: Write the correct number to make the fractions equal

1.  $\frac{1}{3} = \frac{\square}{9}$

2.  $\frac{3}{4} = \frac{6}{\square}$

3.  $\frac{1}{3} = \frac{\square}{9}$

4.  $\frac{6}{12} = \frac{1}{\square}$

## Adding and Subtracting Fractions with Different Denominators

$$1. \quad \frac{2}{3} + \frac{1}{2} = \boxed{\quad}$$

$$3. \quad \frac{1}{5} + \frac{2}{4} = \boxed{\quad}$$

$$2. \quad \frac{2}{5} + \frac{1}{10} = \boxed{\quad}$$

$$4. \quad \frac{3}{5} + \frac{3}{8} = \boxed{\quad}$$

Simplest Form: Write the correct mixed numbers from these improper fractions

$$\frac{46}{4} \quad \boxed{\quad}$$

$$\frac{62}{4} \quad \boxed{\quad}$$

$$\frac{70}{3} \quad \boxed{\quad}$$

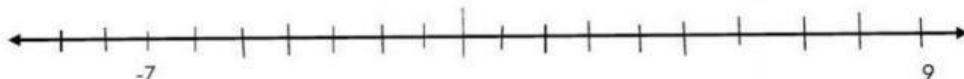
$$\frac{60}{2} \quad \boxed{\quad}$$

$$\frac{69}{2} \quad \boxed{\quad}$$

$$\frac{83}{4} \quad \boxed{\quad}$$

## INTEGERS:

a. Label these integers on the number line below.  $-6, 8, -9, 0, 2, -2$



b. Write the opposite integer for the numbers below.

$$+19 \quad \boxed{\quad}$$

$$-46 \quad \boxed{\quad}$$

$$-61 \quad \boxed{\quad}$$

$$13 \quad \boxed{\quad}$$

c. Arrange the following integers in descending order.

-5	3	10	-7	2
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**Adding Integers**

$$+ + + = +$$

$$- - - = -$$

**Adding Integers**

1)  $-6 + -2 = \boxed{\phantom{00}}$

2)  $-4 + -3 = \boxed{\phantom{00}}$

3)  $-9 + -2 = \boxed{\phantom{00}}$

4)  $5 + 8 = \boxed{\phantom{00}}$

5)  $-4 + -4 = \boxed{\phantom{00}}$

**Comparing Integers:** Order the integers below from least to greatest

least	_____	greatest
247	_____	
-26	_____	
855	_____	
400	_____	
-716	_____	
157	_____	

least	_____	greatest
-390	_____	
724	_____	
-762	_____	
-24	_____	
43	_____	
245	_____	

**THE DISTRIBUTIVE PROPERTY:**Fill in each  $\bigcirc$  with  $<$ ,  $>$ , or  $=$  to make a true statement.

1.  $-5 \bigcirc -55$

2.  $4 \bigcirc -66$

3.  $-777 \bigcirc -77$

4.  $-75 \bigcirc -75$

5.  $-898 \bigcirc -99$

6.  $0 \bigcirc 44$

**How Do I Remember It All ... ? PEMDAS !****Order of Operations****P** Parentheses first**E** Exponents (ie Powers and Square Roots, etc.)**MD** Multiplication and Division (left-to-right)**AS** Addition and Subtraction (left-to-right)

Evaluate the expressions below using PEMDAS. Type your final answer in the box.

(A)  $(9 + 7) \times 4 - 12 = \boxed{\phantom{00}}$

(B)  $12 + 36 \div 4 - 16 = \boxed{\phantom{00}}$

(C)  $9 \div 3 + 4 \times 6 = \boxed{\phantom{00}}$

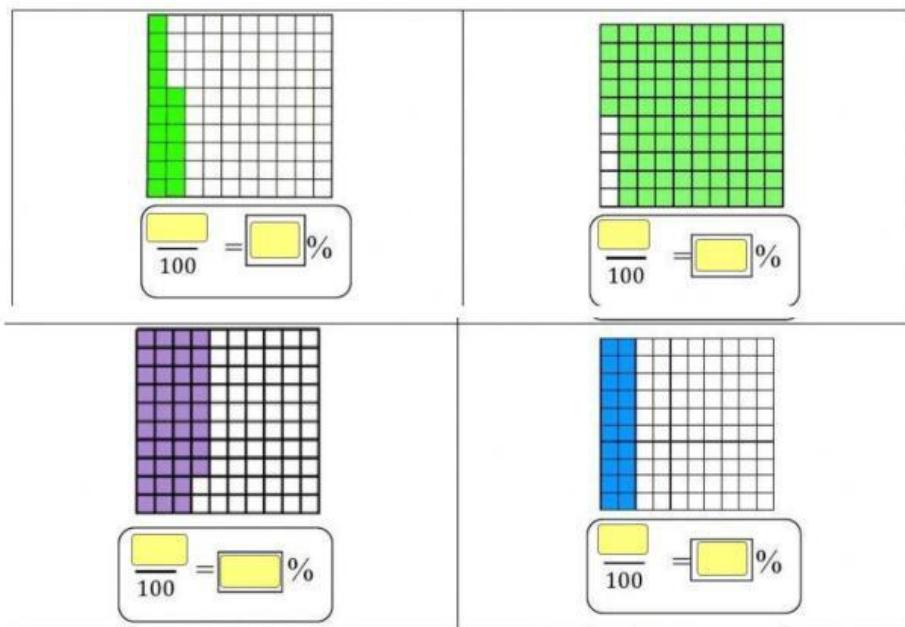
(D)  $8 \times 18 \div 4 + 15 = \boxed{\phantom{00}}$

(E)  $(67 - 18) \div 7 \times 8 = \boxed{\phantom{00}}$

(F)  $52 - 8 \times 5 \div 2 = \boxed{\phantom{00}}$

## PERCENTS, RATIOS, AND RATES

State the percentage.



**Solve the following:**

1. Find 15% of \$360.

$$15\% = \underline{\hspace{2cm}}$$

$$\$360 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

2. Find 32% of \$480.

$$32\% = \underline{\hspace{2cm}}$$

$$\$480 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Write the ratio in three different ways.

1) books to pens



Words :

Ratio :

Fraction :

2) pumpkins to cabbages



Words :

Ratio :

Fraction :

## Unit Rates

Find the unit rate	Answer
<b>Example:</b> 800 words per 4 minutes	<b>Example: ( 800 ÷ 4 )</b> 200 words per minute
a) 120 flights per 4 hours	<input type="text"/> flights per hour
b) 147 kilometres in 7 hours	<input type="text"/> kilometres per hour
c) 60 calls in 12 hours	<input type="text"/> calls per hour

## MONEY:

You have **\$10.00** to spend. Decide with each scenario if you have enough money to purchase the items and how much change you will get.

Cost of items

Pick the correct answer

1 cheeseburger 1 small fry 1 small drink	\$1.59 \$0.79 \$1.29 <input type="text"/>		I don't have enough \$\$ \$6.33 in change \$5.99 in change \$3.67 in change
2 cheeseburgers 1 large fry 1 large drink	\$1.59 \$1.39 \$1.39 <input type="text"/>		I don't have enough \$\$ \$1.87 in change \$5.96 in change \$4.04 in change

## Multiply.

1.  $\begin{array}{r} \$0.63 \\ \times \quad 3 \\ \hline \end{array}$

2.  $\begin{array}{r} \$0.72 \\ \times \quad 8 \\ \hline \end{array}$

3.  $\begin{array}{r} \$0.16 \\ \times \quad 4 \\ \hline \end{array}$

4.  $\begin{array}{r} \$0.49 \\ \times \quad 2 \\ \hline \end{array}$

Adam buys an eraser and a pen. He gives the storekeeper a \$1 bill. How much change should Adam receive?

Nancy has \$4.25. She wants to buy 7 notebooks and 3 pens. How much more money does Nancy need?

School Store Supplies	
Pens 29¢	Pads 56¢
Pencils 6¢	Notebooks 89¢
Erasers 49¢	Highlighters 89¢

Solve each problem. Show all working in your Math notebook. Write your answers on the line.

a. **Twelve** friends go to a Junkanoo parade. Altogether, they pay **\$124.32** for tickets and snacks. They share the cost equally. How much does each person pay?

Answer: \$  each



b. Mrs. Johnson is selling popcorn at the snack stand. Each bag holds **2.3** ounces of popcorn. In one hour she sells **56** bags of popcorn. How many ounces of popcorn are in 56 bags?

Answer:  ounces of popcorn



## Calculating Sales Tax

A. Shop A has discounted the following items by **30%**.

Item	Old Price	Discount	Sale Price
Shirt	\$29.50		
Dress	\$87.99		

B. Shop A has discounted the following items by **70%**.

Item	Old Price	Discount	Sale Price
Phone	\$1,240.00		
Tablet	\$945.00		

#	E.g.	1	2	3	4	5
Original Price	\$110.00	\$250.00	\$38.00	\$10.00	\$55.00	\$124.00
Sales Tax	5%	7%	6%	5%	9%	4%
Total Cost	\$115.50					