

## Grade 7 Pre-Assessment

### Place Value (Pre Grade 7)

1. What is the value of the underlined digit?

a) 1986

b) 8721986

2. Fill in the empty spaces on the table

Standard Form	Expanded Form	In Words
	$2000 + 400 + 50 + 7$	
167 089		
		Three million two hundred six thousand nine hundred fifty-one

3. Round the following numbers:

a) 384.58 to the nearest **tenth**

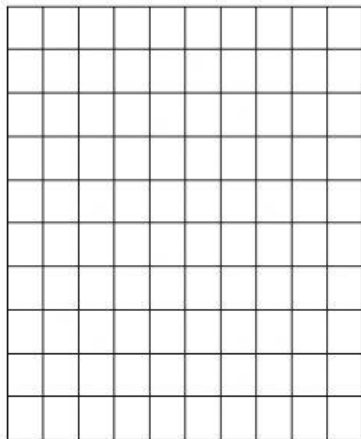
b) 6562.41 to the nearest **thousand**

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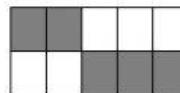
### Decimals

1. Colour the blocks to show the indicated decimal numbers:

a) 0.75



2. What decimal would describe the shaded part of the diagram?



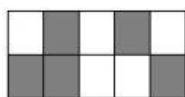
3. Use  $<$ ,  $>$ , or  $=$  to make the statements true:

a)  $0.6$  \_\_\_\_  $0.006$

b)  $42.18$  \_\_\_\_  $42.7$

### Fractions

1. What fraction would describe the shaded part of the diagram?



2. Show  $\frac{3}{5}$  in at least 3 different ways.

3. Order the following fractions from smallest to largest.

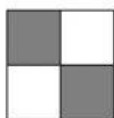
a)  $\frac{7}{10}$   $\frac{4}{10}$   $\frac{3}{10}$   $\frac{8}{10}$

\_\_\_\_/\_\_\_\_/\_\_\_\_/\_\_\_\_

b)  $\frac{5}{6}$   $\frac{1}{3}$   $\frac{1}{2}$   $\frac{2}{3}$

\_\_\_\_/\_\_\_\_/\_\_\_\_/\_\_\_\_

4. Are the shaded fractions of the following diagrams equivalent? YES or NO



5. Give an equivalent fraction for each of the following:

a)  $\frac{6}{12}$

b)  $\frac{60}{90}$

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6. Circle the bigger fraction. If both fractions are equal, circle both.

a)  $\frac{3}{5}$  or  $\frac{4}{5}$

b)  $\frac{1}{2}$  or  $\frac{1}{3}$

c)  $\frac{4}{8}$  or  $\frac{1}{2}$

7. Write a mixed number and an improper fraction to describe the shaded portion of the following diagram.



8. Change  $\frac{23}{6}$  to a mixed number.

## Percent

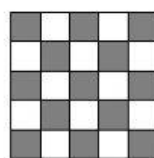
1. Circle which test score is highest in percent.

a) 7 out of 10

b) 15 out of 25

c) 40 out of 50

2. What percent is shaded in the



following diagram?

## Parts of a Whole

1. Fill in the other ways to represent each number:

Decimal	Fraction	Percent
0.04		
0.62		
	$\frac{3}{100}$	

Decimal	Fraction	Percent
	$\frac{6}{20}$	
		9%
		40%

2. Give an example of a fraction larger than 0.5.

## Integers

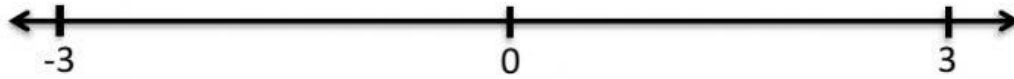
1. Order the following sets of integers from smallest to largest -5, +9, 0, -1, -8, -6

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

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### Finding Numbers on a Number Line

1. Place the numbers where they belong on the number line: 2, -1,  $\frac{5}{2}$ , 40%, 0.9



### Addition

1.  $12 + 9 =$

3.  $63 + 295 =$

2. 
$$\begin{array}{r} 52 \\ +78 \\ \hline \end{array}$$

4.  $2453 + 729 + 144 =$

### Subtraction

1.  $27 - 3$

3.  $607 - 32$

2.  $64 - 7$

4.  $1465 - 348$

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**Multiplication**

1.  $5 \times 9$

4.  $3826 \times 6$

2.  $3 \times 16$

5.  $25 \times 48$

3.  $1000 \times 81$

**Division**

1.  $28 \div 7$

4.  $8 \overline{)400}$

2.  $10 \overline{)40}$

5.  $3 \overline{)402}$

3.  $9 \overline{)81}$

6.  $\frac{383}{6}$

## Grade 7 Pre-Assessment

### Factors and Multiples

1. What are the **prime factors** of 80?

You may use a factor tree if you choose.

2. What are the **factors** of 12?

3. What is the **greatest common factor** of 12, 15?

4. What is the **lowest common multiple** of 12, 15?

5. Using the number grid below, use a ☐ to mark the factors of 6 and a ☐ to mark the multiples of 6.

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

### Order of Operations

1.  $3 + 7 \times 4$

4.  $2 - 3(4) \div 6 - 2$

2.  $24 - 8 \times 3$

5.  $5 + 7(9 - 4 + 3)$

3.  $4 \times 8 + 8 \div 4 - 3$

6.  $5 + 2(8 - 4) \div 4 + 4$

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### Cartesian Plane

1. Write the  $(x,y)$  coordinates for each point:

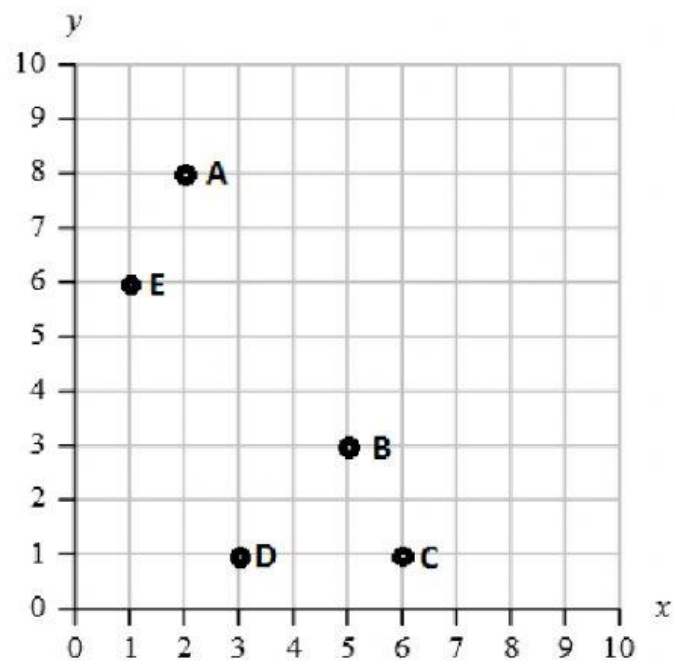
A

B

2. Which point is described by the coordinates:

$(3, 1)$

$(6, 1)$



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### Patterns

1. How many kilometers will Cindy jog in 5 hours?

Hours	Kilometers
1	4
2	8
3	12
4	16
5	?

2. What is the pattern rule?

Input	Output
23	46
25	50
9	18
47	94

3. Fill in the table for  $y = 2x + 1$

x	y

4. Which of the following is an example of an expression?
- a.  $2x + 4$
  - b.  $5x + 4 = 29$
  - c.  $A = L \times W$
  - d.  $12 + 6 = \frac{36}{x}$
5. What is the expression for three times a number minus five?
6. What is the equation for the following statement: one more than double a number is 11?
7. Ray earns money cleaning windows. For each house he charges \$5 plus \$2 for every window cleaned. What is an expression that represents his total earnings?



**Grade 7 Pre-Assessment**  
**Solving Equations**

1.  $34 = \square + 9$

3.  $3x = 12$

2.  $x + 5 = 11$

4.  $2x + 3 = 15$