

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**

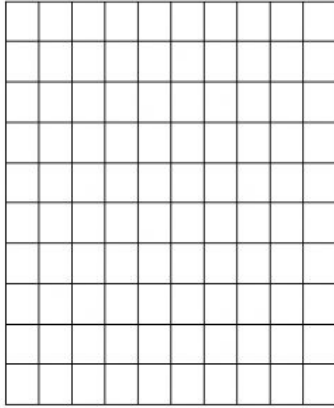
b) 6562.41 to the nearest **thousand**

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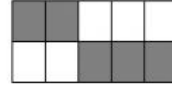
Decimals

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.

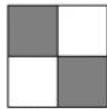
a) $\frac{7}{10}$ $\frac{4}{10}$ $\frac{3}{10}$ $\frac{8}{10}$

____, _____, _____, _____

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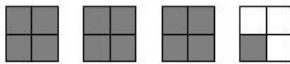
6. Circle the bigger fraction. If both fractions are equal, circle both.

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

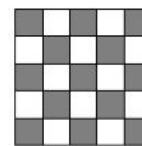
1. Circle which test score is highest in percent.

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.

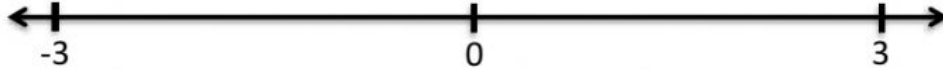
Integers

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. 5×9

4. 3826×6

2. 3×16

5. 25×48

3. 1000×81

Division

1. $28 \div 7$

4. $8 \overline{)400}$

2. $10 \overline{)40}$

5. $3 \overline{)402}$

3. $9 \overline{)81}$

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

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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:

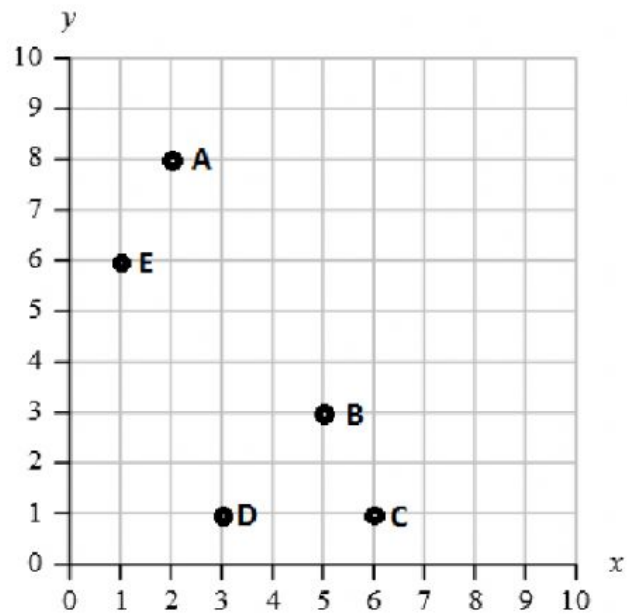
A

B

2. Which point is described by the coordinates:

$(3, 1)$

$(6, 1)$



Grade 7 Pre-Assessment 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?

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Solving Equations

1. $34 = \square + 9$

3. $3x = 12$

2. $x + 5 = 11$

4. $2x + 3 = 15$