

Rational Numbers/Properties/Absolute Value

Long-Term Memory Review – Grade 7

Review 1

1. Complete the chart.

FRACTION	DECIMAL	PERCENT
$\frac{4}{5}$		
		85%
	0.5	
$\frac{1}{3}$		

2. How far is -72 away from zero on the number line?

3. What is $|-72|$?

4. Fill in the blank to complete the distributive property:

$$\underline{\hspace{2cm}} \cdot (k + 2) = 5k + 5 \cdot 2$$

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Review 2

1. Order the following numbers from least to greatest.

$$\frac{1}{2}, \frac{3}{4}, 66\%, 45\%, 0.08$$

2. Which has the greatest value? Which has the least value?

$$|7|, |-2|, |-11|, |9|$$

3. Fill in the blank to demonstrate the commutative property:

$$6 \cdot 5 = \underline{\quad} \cdot 6$$

4. What property is demonstrated by $8 \times 1 = 8$?

5. Fill in the blank: $5 + (6 + 3) = (5 + 6) + 3$ is true because of the _____ property of addition.

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Review 3

1. Order the following numbers from greatest to least.

$$\frac{2}{8}, 22\%, \frac{1}{5}, \frac{2}{5}, 0.\bar{3}$$

2. Find the sum:

$$|-26| + |15| =$$

3. Match the property on the left with the correct example on the right. Write the letter in the space provided.

- | | | |
|-------------------------|-------|---|
| A. Associative Property | _____ | $4 \cdot (k \cdot 5) = (4 \cdot k) \cdot 5$ |
| B. Commutative Property | _____ | $1 \cdot m = m$ |
| C. Identity Property | _____ | $a + b = b + a$ |

4. Fill in the blank: $5(n+3) = 5___ + 5(3)$

5. What property is demonstrated in question #4?

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Review 4

1. Convert the numbers to percents; then order the numbers from least to greatest.

$$0.76, 0.6, \frac{3}{4}, \frac{7}{10}$$

2. Explain what $|-23|$ means.

3. Order the absolute values of the following numbers from least to greatest.

$$3, -2, 12, 45, -20$$

4. Apply the distributive property to the expression $4(n+7)$.

5. Complete the following equations to represent the commutative property:

a. $3 \cdot 4 = \underline{\quad} \cdot 3$

b. $5 + 2 = 2 + \underline{\quad}$

c. $7 + (2 + 9) = (2 + 9) + \underline{\quad}$

d. $5 \cdot 6 \cdot 12 = 6 \cdot \underline{\quad} \cdot 12$

6. Match the property on the left with the correct example on the right. Write the letter in the space provided.

A. Identity Property _____ $3(a \cdot 4) = (3 \cdot a) \cdot 4$

B. Distributive Property _____ $q + 0 = q$

C. Commutative Property _____ $n(w + v) = nw + nv$

D. Associative Property _____ $7 \cdot 6 = 6 \cdot 7$

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Quiz

1. Complete the chart.

FRACTION	DECIMAL	PERCENT
$\frac{2}{3}$		
	$0.\overline{33}$	
		10%
		150%
	0.125	

2. Arrange $\frac{5}{8}$, 0.6, $\frac{2}{3}$, 6%, 0.07 from greatest to least.

3. Compare the absolute values of -51 and 51 .

4. Describe what $|-81|$ means.

5. Which equation represents the distributive property?

A. $2(4+3) = (2 \cdot 4) \cdot (2 \cdot 3)$

B. $2(4+3) = (2 \cdot 4) + (2 \cdot 3)$

C. $2(4+3) = 2 \cdot 4 + 3$

D. $2(4+3) = 2 \cdot 4 \cdot 3$

6. Name the properties shown below.

a. $5 \cdot (m \cdot n) = (5 \cdot m) \cdot n$ _____

b. $2(k+3) = 2k + (2 \cdot 3)$ _____

c. $1 \cdot m = m$ _____

d. $w \cdot 7 = 7w$ _____

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Answers

Review 1- Answers

1)

FRACTION	DECIMAL	PERCENT
$\frac{4}{5}$	0.8	80%
$\frac{17}{20}$	0.85	85%
$\frac{1}{2}$	0.5	50%
$\frac{1}{3}$	$0.\overline{33}$	33%

2) 72 units

3) 72

4) 5

Review 2- Answers

1) 0.08, 45%, $\frac{1}{2}$, 66%, $\frac{3}{4}$

2) Greatest = $|-11|$; Least = $|-2|$

3) 5

4) Identity Property of Multiplication

5) Associative

Review 3- Answers

1) $\frac{2}{5}$, $0.\overline{3}$, $\frac{2}{8}$, 22%, $\frac{1}{5}$

2) 41

3) A, C, B

4) n

5) Distributive Property of Multiplication over Addition

Review 4- Answers

1) 60%, 70%, 75%, 76%

2) 23 units away from 0

3) $|-2|$, $|3|$, $|12|$, $|-20|$, $|45|$

4) $4n + 28$

5) 4; 5; 7; 5

6) D; A; B; C

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Quiz- Answers

1)

FRACTION	DECIMAL	PERCENT
$\frac{2}{3}$	$0.\overline{66}$	$66\frac{2}{3}\%$
$\frac{1}{3}$	$0.\overline{33}$	$33\frac{1}{3}\%$
$\frac{1}{10}$	0.10	10%
$\frac{3}{2} = 1\frac{1}{2}$	1.5	150%
$\frac{1}{8}$	0.125	12.5%

2) $\frac{2}{3}$, $\frac{5}{8}$, 0.6, 0.07, 6%

3) The values are the same (equal).

4) 81 units away from 0.

5) B

6) associative property of multiplication; distributive property of multiplication over addition; identity property of multiplication; commutative property of multiplication