

6th Grade Second Six Weeks Test Review

Name: _____

1

In the expression shown p represents a rational number.

$$4p$$

What value of p makes the expression equal a number less than 4?

A $\frac{9}{8} = 1\frac{1}{8}$

B $\frac{19}{17} = 1\frac{2}{17}$

C $\frac{7}{8} = \frac{1}{8}$

D $\frac{16}{16} = 1$

multiplying 4 by any # smaller than 1 will result in an answer less than 4

2

A pharmacist put 4.536 ounces of vitamin pills into bottles. She put 0.042 ounce of vitamin pills into each bottle.

How many bottles did the pharmacist use for these vitamin pills?

F 11

G 5

H 18

J 108

$$\begin{array}{r} 0.042 \overline{) 4.536} \\ \underline{42} \\ 336 \\ \underline{336} \\ 0 \end{array}$$

$$\begin{array}{r} 108. \\ 42 \overline{) 4536} \\ \underline{42} \\ 336 \\ \underline{336} \\ 0 \end{array}$$

3

Which statement about 3 multiplied by $\frac{2}{3}$ must be true?

~~A~~ The product is between 3 and 4.

~~B~~ The product is less than $\frac{2}{3}$.

C The product is between $\frac{2}{3}$ and 3.

~~D~~ The product is greater than 4.

$$3 \times \frac{2}{3} = \frac{3}{1} \times \frac{2}{3} = \frac{6}{3} = 2$$

4

A team of workers took 167.3 hours to complete a task. A smaller team of workers will complete the same task, but it will take them 1.25 times as long as it took the first team.

Based on this information, which statement is true?

~~F~~ The task will take the smaller team of workers 168.55 hours to complete, because $167.3 + 1.25 = 168.55$. *b/c adding*

~~G~~ The task will take the smaller team of workers 179.8 hours to complete, because $167.3 + 1.25 = 179.8$. *b/c adding*

~~H~~ The task will take the smaller team of workers 198.825 hours to complete, because $167.3 \times 1.25 = 198.825$. *b/c incorrect x*

J The task will take the smaller team of workers 209.125 hours to complete, because $167.3 \times 1.25 = 209.125$.

$$\begin{array}{r} 167.3 \\ \times 1.25 \\ \hline 8365 \\ 33460 \\ 167300 \\ \hline 209.125 \end{array}$$

5

Which two expressions each represent $\frac{3}{12}$?

A $3 \overline{) 12}$ and $3 \div 12$

B $12 \overline{) 3}$ and $12 \div 3$

C $12 \overline{) 3}$ and $3 \div 12$

D $3 \overline{) 12}$ and $12 \div 3$

$$\frac{3}{12} = 3 \text{ divided by } 12$$

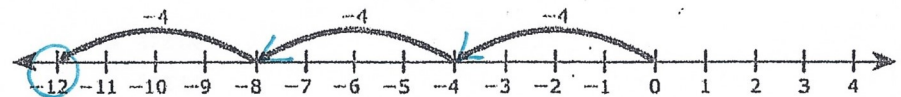
$$3 \div 12$$

$$\frac{3}{12} = \text{TIBO (top in bottom out)}$$

$$12 \overline{) 3}$$

6

Which expression is represented on the number line?



A $-12 \div -3 = 4$

B $0 - (-12) = 12$

C $-3 \cdot -4 = 12$

D $3(-4) = -12$

making 3 jumps, going -4 units each time landing at -12

7 A recipe for cookies requires $\frac{2}{3}$ cup of butter. Rama wants to make $\frac{3}{4}$ of the recipe. How many cups of butter should Rama use to make the cookies?

- F $1\frac{5}{12}$ c
- G $\frac{8}{9}$ c
- H $\frac{1}{12}$ c
- J $\frac{1}{2}$ c

$\frac{3}{4}$ of $\frac{2}{3}$

$\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$

8 A teacher wrote this expression on the board.

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

PEMDAS

What is the value of this expression?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

$(-6)(2) + (-8 \div 4)$
 $(-6)(2) + (-2)$
 $-12 + (-2)$
 -14

-									
+	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8	8
	9	9	9	9	9	9	9	9	9

Don't put answer behind the decimal or

9 Which expression has a value of -22?

- A $8 - (-3) + 33 \div (-3)$
- B $-3 + (-2) - (-8) - 1$
- C $-6 \cdot 2 - (-15)$
- D $-5 \cdot 2 - 12$

A. $8 - (-3) + 33 \div (-3)$
 $8 - (-3) + -11$
 $11 + -11 = 0$

B. $-3 + (-2) - (-8) - 1$
 $-5 + (+8) - 1$
 $3 - 1 = 2$

C. $-6 \cdot 2 - (-15)$
 $-12 + (+15) = 3$

D. $-5 \cdot 2 - 12$
 $-10 - 12 = -10 + -12 = -22$

10 A grocery store sells steak for \$6.10 per pound. What would be the cost of $2\frac{3}{5}$ lb of steak?

- A \$14.03
- B \$8.70
- C \$15.86
- D \$12.06

$2\frac{3}{5} = 2.6$ $\frac{3}{5} = 5 \overline{)3.0}$

6.10
 $\times 2.6$
 \hline
 3660
 12200
 \hline
 15.860

\$15.86

11 A carpenter wants to cut a board that is $\frac{5}{6}$ ft long into pieces that are $\frac{5}{16}$ ft long. The carpenter will use the expression shown to calculate the number of pieces that can be cut from the board.

$\frac{5}{6} \div \frac{5}{16}$ KEEP CHANGE FLIP

Which expression can also be used to calculate the number of pieces that can be cut from the board?

- F $\frac{5}{6} \cdot \frac{16}{5}$
- G $\frac{5}{6} \cdot \frac{5}{16}$
- H $\frac{6}{5} \div \frac{5}{16}$
- J $\frac{6}{5} \div \frac{16}{5}$

$\frac{5}{6} \div \frac{5}{16} = \frac{5}{6} \times \frac{16}{5}$

12 Amy has 5 yd of border to put around a garden. She uses all the border to make four sections that are the same length. Which expression does NOT equal the length of one of these sections in yards?

- F $4 \div 5$
- G $4 \overline{)5}$ ✓
- H $\frac{5}{4}$ ✓
- J $5 \div 4$ ✓

$5 \div 4$

$\frac{5}{4}$ $4 \overline{)5}$

- 13 Serena bought 5 shirts for \$6 each and spent \$7 on lunch. She paid for the shirts and lunch using her debit card. The change in the balance of Serena's checking account can be represented by the expression shown.

$$5(-6) + (-7)$$

Which integer represents the change in the balance of Serena's checking account from these purchases?

- A -37
B 23
C -18
D 4

$$\begin{aligned} &5(-6) + (-7) \\ &-30 + (-7) \\ &-37 \end{aligned}$$

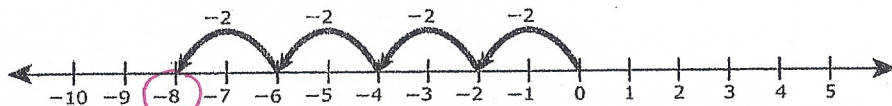
- 14 A baby weighed 7.25 lb at birth. At the end of 8 months, the baby weighed $2\frac{1}{2}$ times its birth weight. How many pounds did the baby weigh at the end of 8 months?

- F 14.5 lb
G 9.75 lb
H 18.125 lb
J 14.125 lb

$$\begin{array}{r} 7.25 \\ \times 2.5 \\ \hline 3625 \\ 14500 \\ \hline 18.125 \end{array}$$

$$2\frac{1}{2} = 2.5$$

- 15 Which expression is represented on the number line?



- F $0 - (-8) = 8$
G $-2 \cdot 4 = -8$
H $-2 + (-8) = -10$
J $-2 \div 4 = -0.5$

jumping -2 4 times
landing at -8

- 16 LuAnn is playing a math game. She chooses three cards. The value of each of her cards is shown.

- First card: -12
- Second card: 3
- Third card: -5

What is the sum of the values of LuAnn's three cards?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

$$\begin{aligned} &-12 + 3 + (-5) \\ &-9 + (-5) \\ &-14 \end{aligned}$$

-			1	4	.		
+	0	0	0	0		0	0
	1	1	1	1		1	1
	2	2	2	2		2	2
	3	3	3	3		3	3
	4	4	4	4		4	4
	5	5	5	5		5	5
	6	6	6	6		6	6
	7	7	7	7		7	7
	8	8	8	8		8	8
	9	9	9	9		9	9

- 17 Which expression is equivalent to $\frac{8}{9} \div \frac{3}{4}$?

A $\frac{8}{4} \cdot \frac{9}{3}$

B $\frac{8}{9} \cdot \frac{4}{3}$

C $\frac{9}{8} \cdot \frac{3}{4}$

D $\frac{9}{8} \cdot \frac{4}{3}$

$$\frac{8}{9} \div \frac{3}{4}$$

K C F

$$\frac{8}{9} \times \frac{4}{3}$$