

key

Name: _____

Date: _____

7.NS.2a

C 1. What is the product of $(-\frac{1}{4}) \times (-\frac{3}{7})$? = (+) $\frac{3}{28}$ (2015)

- A. ~~$-\frac{7}{12}$~~ B. ~~$-\frac{3}{28}$~~ C. $\frac{3}{28}$ D. $\frac{7}{12}$

A 2. If the expression below has a positive value, which inequality represents all possible values of x in the expression? (Secondary standard 7.EE.B.4) (2017) no calculator

$$-(-) = +$$

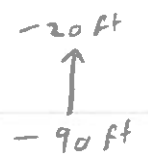
$$-3x \uparrow \text{ so}$$

$$\text{less than } 0$$

- A. $x < 0$ B. $x > 0$ C. $x \leq 0$ D. $x \geq 0$

7.NS.2b

B 1. The elevation at ground level is 0 feet. An elevator starts 90 feet below ground level. After traveling for 15 seconds, the elevator is 20 feet below ground level. Which statement describes the elevator's rate of change in elevation during this 15 second interval? (2016)



- A. The elevator traveled upward at a rate of 6 feet per second.
 B. The elevator traveled upward at a rate of $4\frac{2}{3}$ feet per second.
~~C. The elevator traveled downward at a rate of 6 feet per second.~~
~~D. The elevator traveled downward at a rate of $4\frac{2}{3}$ feet per second.~~

$$\frac{\text{change}}{\text{time}} = \frac{70 \text{ ft}}{15 \text{ sec}} = 4\frac{2}{3} \text{ ft/sec}$$

7.NS.2c

D 1. A number, n , is multiplied by $-\frac{5}{8}$. The product is -0.4 . What is the value of n ? (2016) (no calculator)

must be (+) $\rightarrow (n) \times (-\frac{5}{8}) = -0.4$

- $-\frac{4}{10}$ K
 $-\frac{5}{8}$ C
 F

- A. ~~$-\frac{16}{25}$~~ B. ~~$-\frac{1}{4}$~~ C. $\frac{1}{4}$ D. $\frac{16}{25}$

B 2. What is the value of the expression? (2016) (no calculator)

(+) \div (-) = (-)

$$\frac{8}{15} \div (-0.35)$$

$$-\frac{4}{10} \cdot \frac{-8}{5} = \frac{32}{50} = \frac{16}{25}$$

- A. $-\frac{75}{14}$ B. $-\frac{32}{21}$ C. $-\frac{21}{32}$ D. $-\frac{14}{75}$

$$\frac{8}{15} \cdot \frac{-100}{35} = -\frac{32}{21}$$

$(+) \div (+) = (+)$ $(+) \times (+) = (+)$

D 3. What is the value of the expression $(\frac{8}{9}) \div (\frac{2}{3}) \times (4\frac{1}{2})$? (2017)

Handwritten work for Question 3:
 $(\frac{8}{9}) \div (\frac{2}{3}) \times (4\frac{1}{2})$
 k c f $4\frac{8}{9} \cdot \frac{3}{2} = \frac{4}{3}$ $4\frac{3}{9} \cdot \frac{3}{2} = 6$

- A. -6 B. $-\frac{8}{27}$ C. $\frac{8}{27}$ D. 6

7.NS.2d

C 1. What is the decimal equivalent of $\frac{7}{8}$? (2015)

Handwritten long division for $\frac{7}{8}$:
 $8 \overline{) 7.000}$
 -64
 60
 -56
 40
 -40
 0

- A. 0.780 B. 0.870 C. 0.875 D. 0.885

B 2. Which number is equivalent to $\frac{43}{12}$? (2017) no calculator

- A. 3.583 B. $3.\overline{583}$ C. $3.\overline{583}$ D. 3.583

Handwritten long division for $\frac{43}{12}$:
 $12 \overline{) 43.000}$
 -36
 70
 -60
 100
 -96
 40
 -36
 40

D 3. Which statement describes the decimal equivalent of $\frac{7}{8}$? (2017) no calculator

- A. It is a decimal with a repeating digit of 5
 B. It is a decimal with repeating digits of 75
 C. It is a decimal that terminates after 2 decimal places
 D. It is a decimal that terminates after 3 decimal places

Handwritten long division for $\frac{7}{8}$ (repeated):
 $8 \overline{) 7.000}$
 -64
 60
 -56
 40
 -40
 0

4. Convert $\frac{3}{11}$ to a decimal equivalent using long division. (2014)

Show your work.

Handwritten long division for $\frac{3}{11}$:
 $11 \overline{) 3.000}$
 -22
 80
 -77
 30
 -22
 80
 -77

Answer 0. $\overline{27}$