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IM/21/BI/12

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Take home Assignment 4 - Numbers

Part A - Integers



- 2) a - True
b - True
c - False
d - False
e - True

- 3) a - (-3)
b - (-145)
c - (-1)
d - (-32)
e - (-9)

- 4) a - (-12)
b - (-1)
c - 141
d - (-15)
e - (-150)

- 5) a - (-70)
b - 292
c - 48
d - 54
e - (-26 000 000)

$$c) a = (-8)$$

$$b = (-2)$$

$$c = 9$$

$$d = \cancel{(-30)} (-34)$$

$$e = (-80)$$

$$7) a = (-7)$$

$$b = 1$$

$$c = 70$$

$$d = 23$$

$$e = (-3)$$

$$f = 162$$

$$g = 4$$

$$h = (-14)$$

$$i = 129$$

$$j = (-3)$$

$$k = 0.28$$

$$l = (-120)$$

$$8) 154 \text{ feet}$$

$$\begin{array}{r} 436 \\ (282) \\ \hline 154 \end{array}$$

$$9) 7 (-38.83^{\circ})$$

$$= \underline{\underline{-21.81^{\circ}}}$$

$$10) 3753 \ 750$$

$$19250$$

$$\times 195$$

$$\underline{\underline{3753 \ 750}}$$

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Part B - Fraction and Mixed Numbers

1)



2)

$$a) 2\frac{2}{5} \left(2\frac{1}{12} \right) = \frac{12}{5} \times \frac{25}{12} = \frac{27}{5}$$

$$\underline{\underline{5.4}}$$

$$b) 15\frac{1}{5} \div 2\frac{2}{9} = \frac{46}{5} \div \frac{20}{9} = \frac{46}{5} \times \frac{9}{20} = \frac{69}{10} = \underline{\underline{6.9}}$$

c) 2

d) 9.91

e) 5.72

$$f) \frac{-3}{64}$$

$$g) 305 \times \frac{1}{2}$$

$$\underline{\underline{152.5}}$$

$$h) 500 - 320\frac{1}{5} \text{ (gallon)}$$

$$\frac{(500 \times 5) - 1651}{5}$$

$$\frac{2500 - 1651}{5}$$

$$\frac{849}{5}$$

$$\underline{\underline{169\frac{4}{5} \text{ gallon}}}$$

Part C - Decimals

- 01) a) $461.728 \rightarrow 461.70$
b) $2793.0495 \rightarrow 2793.05$
c) $-19833792 \rightarrow -1.982379$

02) a) 10.756

b) 6.121

c) 0.0348

d) 14.07
$$\begin{array}{r} -6.1 \\ +(-2.01) \\ \hline 14.07 \end{array}$$

e) (-0.2)

03) 1.026 inch

04) a) $-6.78 > -6.79$

b) $0.3 < \frac{3}{8}$

c) $\sqrt{\frac{16}{21}} = 0.4$

d) $0.45 < 0.45$

05) a) $11 \rightarrow -2 \times 5 + 2 \times 7 = -10 + 21$

b) $0.027 - 0.04 \rightarrow -0.013$

c) $4.1 - (3.2) \times 0.16$

$4.1 - 0.512$

3.588

d) ~~$\frac{7(-2)}{8} + \frac{-9.6}{8} + \frac{2}{9} \times \frac{1}{4}$~~

$$\begin{array}{r} -9.6 + 9 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 0.6 \\ \hline 8 \\ \hline \end{array}$$

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Part D - Percent

- 01) a) 0.0006
b) 2.1
c) 0.55375

- 02) a) 25%
b) 62.5%
c) 112%

- 03) a) 19%
b) 787%
c) 0.5%

- 04) a) 66.7%
b) 200%
c) 90%

- 05) a) $\frac{11}{20}$
b) $\frac{1}{10000}$

- 06) a) $\frac{1}{5}$
b) $\frac{2}{3}$

- 07) a) 2.3%
b) 178%

08) $40000 \times \frac{3.6}{100}$

1440

Teacher's new salary = $40000 + 1440$
= 41440/-

00) 42.827

10) $\$ 0.7395$

11) 134.4

12) 90 laps

13)

Part E - Ratios and Proportion

01) a) False

b) True

02) $7:15$ $\frac{35}{5} : \frac{75}{5}$
 $7:15$

03) a) 1:2

b) 5:6

c) 6:1

d) 6:1

04) a) ~~10.6~~ 10.6 feet/seconds

b) 2.5 applications/opening

c) 127.5 students/years

d) 0.84 mda/attempts

05) a) 1.5 errors/hours

b) 9.5 time/months

c) 320.6 peoples/square miles

d) 14.7 Pounds/square inches

$$(d) \Rightarrow \frac{1}{2}$$

$$d) x = \frac{2}{3}$$