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$$1. a) 165\% \text{ of } 80$$

$$1.65 \times 80$$

$$132$$

$$b) 3\frac{1}{2}\% \text{ of } 400$$

$$3.5\% \text{ of } 400$$

$$0.035 \times 400$$

$$14$$

$$c) 0.4\% \text{ of } 500$$

$$0.004 \times 500$$

$$2$$

$$1\% \text{ of } 500 = 5$$

$$d) 35\% \text{ of } 51$$

$$0.35 \times 51$$

$$17.85$$

$$2a) 3 : 5 = g : 65$$

$$\begin{array}{cc} \times 13 & \times 13 \\ 39 & \end{array}$$

$$g = 39$$

$$b) h : 8 = 56 : 64$$

$$\begin{array}{cc} \div 8 & \div 8 \\ h & \end{array}$$

$$h = 7$$

$$c) 16 : m = 20 : 35$$

$$16 : \underline{28} = 4 : 7$$

$$\begin{array}{cc} \times 4 & \times 4 \\ 28 & \end{array}$$

$$m = 28$$

$$d) 36 : 8 = 81 : f$$

$$9 : 2 = 81 : \underline{18}$$

$$\begin{array}{cc} \times 9 & \times 9 \\ 18 & \end{array}$$

$$f = 18$$

$$3 \text{ a) } \$ 41.25 \text{ in } 8 \text{ h}$$

$$\begin{array}{r} \div 8 \end{array} \quad \begin{array}{r} \div 8 \end{array}$$

$$\$ 5.15 / \text{hr}$$

$$b) \quad 8 \text{ puzzles in } 96 \text{ min}$$

$$\begin{array}{r} \div 8 \end{array} \quad \begin{array}{r} \div 8 \end{array}$$

$$12 \text{ min/puzzle}$$

$$c) \quad 20 \text{ km in } 15 \text{ min}$$

$$\begin{array}{r} \times 4 \end{array} \quad \begin{array}{r} \times 4 \end{array}$$

$$80 \text{ km in } 60 \text{ min or } 80 \text{ km/hr}$$

4. 22% of boxes sold by Gr 8

$$22\% \text{ of } n = 77$$

$$0.22n = 77$$

$$\frac{0.22n}{0.22} = \frac{77}{0.22}$$

$$n = 350$$

350 boxes were sold

$$\begin{aligned} \text{5. Disc} & \quad 25\% \text{ of } 89.99 \\ & \quad 0.25 \times 89.99 \\ & \quad 22.50 \end{aligned}$$

$$\begin{aligned} \text{Sale Price} & & 89.99 - 22.50 \\ \text{after 4} & & 67.49 \\ \text{weeks} & & \end{aligned}$$

$$\begin{aligned} \text{2nd Disc} & \quad 15\% \text{ of } 67.49 \\ & \quad 0.15 \times 67.49 \\ & \quad 10.12 \end{aligned}$$

$$\begin{aligned} \text{Sale Price} & & 67.49 - 10.12 \\ \text{after 6} & & \$57.37 \\ \text{weeks} & & \end{aligned}$$

Sale price after 6 weeks \$57.37

$$\begin{aligned} \text{b) HST} & \quad 13\% \text{ of } 57.37 \\ & \quad 0.13 \times 57.37 \\ & \quad 7.46 \end{aligned}$$

$$\begin{aligned} \text{Total Cost} & \quad 57.37 + 7.46 \\ & \quad \$63.83 \end{aligned}$$

6. No the price of the house will not be the same, because you are taking 20% of 2 different values. It will have decreased more than it increased, so the value will be lower.

EX original Value 100  
 Inc 20% of 100  
 20  $100 + 20 = 120$

Dec 20% of 120  
 24  $120 - 24 = 96$

7 a) 8 batteries for 3.49 or 24 for 9.29  
 $\times 3$   $\times 3$   
 24 for 10.47

24 for 9.99 is a better deal

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8 for 3.49	24 for 9.29
1 for 0.44	1 for 0.39
	Better Deal

b) 100g of iced tea \$0.29 or 500g for \$1.69  
 500g for \$1.45

100g for \$0.29 Better buy

8.

Leos

Win: Losses: Games

 $5_{x11} : 3_{x11} : 8_{x11}$  $55 : 33 : 88$ 

Tigers

W: L: G

 $7 : 4 : 11$   
 $\times 8 \quad \times 8 \quad \times 8$  $56 : 32 : 88$ 

Tigers have the better record

9. Orange Juice

1L for 2.79

1.84L for 3.99

 $\div 1.84 \quad \div 1.84$ 

1L for \$2.17

2.78L for 6.29

 $\div 2.78 \quad \div 2.78$ 

1L for 2.27

The best deal is 1.84L for \$3.99 (if that is how much juice you need)

10.  $\frac{3}{4}$  as a fraction

I have 3 out of 4 equal pieces

b)  $\frac{3}{4}$  as a ratio

3 red tiles out of 4 total tiles.

c)  $\frac{3}{4}$  as a quotient $6 \div 8 = 0.75$  or  $\frac{3}{4}$ d)  $\frac{3}{4}$  as a rate

\$3 for 4 L

## Homework

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# 1, 3, 4, 7, 11, 12, 20, 23, 28, 31

(plus any other questions  
you need practice on)

Test → Friday