

1.

Complete the chart

Percent	Decimal	Fraction
0.089%	0.00089	$\frac{89}{100000}$
→ 26%	0.26	$\frac{26}{100} = \frac{13}{50}$
↙ 47%	0.47	$\frac{24}{51}$
26%	0.26	$\frac{13}{50}$
24.5	0.245	$\frac{49}{200} \div 5 = \frac{49}{40}$

|

2a) Find 0.5% of 350.

a. Find 180% of 90

2a) 0.5% of 350  
 ↓ change to dec  
 $0.005 \times 350$   
 1.75

b) 180% of 90  
 ↓  
 $1.8 \times 90$   
 162

3. Mentally show a) 70% of 200.      B) 15% of 700

3a) 70% of 200

$$\begin{array}{r} 10\% \text{ of } 200 = 20 \\ \times 7 \qquad \qquad \times 7 \end{array}$$

$$70\% \text{ of } 200 = 140$$

b) 15% of 700

$$10\% \text{ of } 700 = 70$$

$$5\% \text{ of } 700 = 35$$

$$15\% \text{ of } 700 = 70 + 35 = 105$$

- 4) The new skates that you want is \$250. They are on sale for 25% off. (a) Find the amount of discount and the sale price. (b) Find the amount of sales tax and the total cost. (c) You have \$200 save up already. Do you have enough to buy the skates? (d) Next week your parents offer to give you an amount equal to 10% of your savings. Will you have enough money to buy the skates next week?

a) Amount Discounted  
 $= 25\% \text{ of Price}$   
 $= 0.25 \times 250$   
 $= 62.50$

$$\begin{aligned} \text{Sale Price} &= \text{Price} - \text{Amount Disc} \\ &= 250 - 62.50 \\ &= 187.50 \end{aligned}$$

c) Tax = 15% of Sale  
 $= 0.15 \times 187.50$   
 $= 28.13$

$$\begin{aligned} \text{Cost w tax} &= \text{Sale} + \text{tax Amount} \\ &= 187.50 + 28.13 \\ &= 215.63 \end{aligned}$$

c) Have \$200 need \$215.63  
 Not enough

d) 10% of Savings

$$\begin{aligned} 10\% \text{ of } \$200 \\ 0.10 \times 200 \end{aligned}$$

$$= 20 \text{ given by parents}$$

So now have \$220 so enough

5) Jan has completed 85% of his multiple choice test and is on number 102.  
How many more questions does he have to complete? (Be careful 2 parts)

Completed  $85\%$  of total = 102

$$0.85t = 102$$

$$\frac{0.85t}{0.85} = \frac{102}{0.85}$$

$$t = 120$$

left

$$120 - 102$$

$$= 18 \text{ left}$$

6) On recent test in different subjects, Kai made 37 out of 42, Jim made 81 out of 92, and Leno made 51 out of 65.  
Who did the best? Explain.

$$\frac{37}{42}$$

↓

$$0.8809$$

88%

$$\frac{81}{92}$$

↓

$$0.8804$$

88%

$$\frac{51}{65}$$

↓

$$0.7846$$

78%

Better

Kai

7) Express as a unit rate.

a) Karen earns \$420 in 7 h.

$$\begin{array}{r} \div 7 \quad \div 7 \\ \$420 \div 7 \\ \hline \$60/\text{hr} \end{array}$$

b) A car travels 850 km in 8 hours

$$\begin{array}{r} \div 8 \quad \div 8 \\ 850 \div 8 \\ \hline 10.625 \text{ km/hr} \end{array}$$

8) Show which is a better deal  
\$3.56 for a dozen of juice

or

\$0.58 for 2 juice

$$3.56 / 12$$

$$\begin{array}{r} \times 6 \quad \times 6 \\ 0.58 \times 6 \\ \hline 3.48 / 12 \end{array}$$

Better since cheaper

9) Find the missing number in each pair of equivalent ratios.

a) 24:36 and  $\underline{\quad}$ :18

$$\begin{array}{c} \text{24} : \text{36} \\ \text{÷2} \quad \text{÷2} \end{array}$$

$$\underline{\quad} = 12$$

b) 50:16 and  $\underline{\quad}$ :40

$$\begin{array}{c} \text{50} : \text{16} \\ \text{×5} \end{array}$$

$$\underline{\quad} = 125$$

10) The population of grade 8 is 31 and the population of the school is 564. What percentage of the school is grade 8?

$$\begin{aligned} \frac{31}{564} &= 0.0549 \\ &= 5.49\% \\ &\approx 5.5\% \end{aligned}$$

## Attachments

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Test Review Worksheet.rtf