

Class/Homework

House is \$100

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if you need more practice Page 308

#. 6.9.10,15,16,18, 22,23,24,27,28,31,32

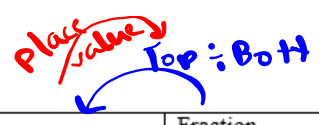
* & Worksheet

Test on Unit 5 Percent, Ratio and Rates

Wed, April 4

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	$\frac{49}{200}$



2a) Find 0.5% of 350.

a. Find 180% of 90

$$\begin{array}{l} 2a) \quad 0.5\% \text{ of } 350 \\ \quad \downarrow \text{change to dec} \\ \quad 0.005 \times 350 \\ \quad 1.75 \end{array}$$

$$\begin{array}{l} b) \quad 180\% \text{ of } 90 \\ \quad \downarrow \\ \quad 1.8 \times 90 \\ \quad 162 \end{array}$$

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

3a) 70% of 200

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

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

b) 15% of 700

$$\begin{array}{l} 10\% \text{ of } 700 = 70 \\ 5\% \text{ of } 700 = 35 \end{array}$$

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

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 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?

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

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

$$\begin{aligned} \text{c) Tax} &= 15\% \text{ of Sale} \\ &= 0.15 \times 187.50 \\ &= 28.13 \end{aligned}$$

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

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

d) 10% of Savings

$$10\% \text{ of } \$200$$

$$0.10 \times 200$$

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

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.

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



$$0.8809$$

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



$$0.8804$$

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



$$0.7846$$

$$78\%$$



Best

7) Express as a unit rate.

a) Karen earns \$420 in 7 h.

$$\frac{\$420}{7} \div 7$$

\$60/hr

b) A car travels 850 km in 8 hours

$$\frac{850}{8} \div 8$$

10.625 km/hr

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

or

\$0.58 for 2 juice

$\times 6 \quad \times 6$

$$3.56 / 12$$

$$3.48 / 12$$

Better since cheaper

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

a) 24:36 and ___:18

$\div 2 \quad \div 2$

$\underline{\quad} = 12$

b) 50:16 and ___:40

$5:8 \quad \times 5$

$\underline{\quad} = 125$

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

$$\frac{31}{564} = 0.0549$$
$$= 5.49\%$$
$$\approx 5.5\%$$

Attachments

Test Review Worksheet.rtf