

Warm Up Grade 8





No calculators

- 1) a) What is 0.124 as a percent?
- 12.4 %
- b) Write <u>13</u> as a percent. <u>13</u> = <u>65</u> 20

65%

Use Calculator

²⁾Jim made <u>14</u> and Bob made <u>5</u> on a test. Who made the better mark?

56

25

$$\frac{14 \div 7}{56 \div 7} = \frac{2 \div 7}{8 \div 7} = \frac{1 \times 25}{4 \times 25} = \frac{25}{100} = 25\%$$

$$\frac{5}{25} = \frac{20}{100} = 20\%$$

Calculator Top: Bott = Dec
$$\Rightarrow$$
 %

 $14 \div 56 = 0.25 \Rightarrow \times 100 = 25 \times 100 = 25 \times 100 = 20 \times$

You had 1-4 WORKSHEET

Solutions

Evaluate each and show work

1)
$$75\%$$
 of $80 = 60$

x 3

75% of $80 = 20$
x 3

75% of $80 = 60$

5)
$$30\%$$
 of $70 = 70$
x 3 30% of 70 = 21

6)40% of 2

$$x \stackrel{10\% \text{ of } 20 = 2}{40\% \text{ of } 20 = 8}$$

7)
$$70\%$$
 of 80
10% of $80 = 8$
70% of $80 = 7 \times 8 = 56$

$$10) 80\% \text{ of } 90$$

$$10\% \text{ of } 90 = 9$$

$$80\% \text{ of } 90 = 9 \times 8 = 72$$

$$11) 5\% \text{ of } 80 = 8$$

$$5\% \text{ of } 80 = 8/2 = 4$$

$$12)_{\% \text{ of } 30} = f_{0.3} = 0.3$$

$$3\% \text{ of } 30 = 0.3 \times 3$$

$$= 0.9$$

$$13_{1}$$
 $_{2}$ $_{6}$ $_{1}$ $_{1}$ $_{1}$ $_{1}$ $_{2}$ $_{6}$ $_{1}$ $_{1}$ $_{1}$ $_{1}$ $_{2}$ $_{3}$ $_{4}$ $_{5}$ $_{1}$ $_{1}$ $_{1}$ $_{2}$ $_{3}$ $_{4}$ $_{5}$ $_{1}$ $_{5}$ $_{6}$ $_{5}$ $_{1}$ $_{1}$ $_{1}$ $_{2}$ $_{3}$ $_{4}$ $_{5}$ $_{5}$ $_{5}$ $_{5}$ $_{6}$ $_{6}$ $_{7}$ $_{1}$ $_{1}$ $_{1}$ $_{2}$ $_{3}$ $_{4}$ $_{5}$ $_{5}$ $_{5}$ $_{5}$ $_{6}$ $_{7}$ $_{$

$$1.40 + 1.60 = 0.6 = 1.60$$
4% of 160 = 1.6x4
=6.4

15)
$$20\%$$
 of 2700
10% of $2700 = 270$
20% of $80 = 270 \times 2 = 540$

14)
$$20\%$$
 8f 6f 6f 60 = 16 x 2 = 32

$$75\% \text{ of } 8D$$

$$25\% \text{ of } 8D = 20 \times 3 = 6D$$

$$\times 3 - 75\% \text{ of } 8D = 60$$

$$25\% \text{ of } 8D = 60$$

$$25\% \text{ of } 8D = 20$$

1) Mentally calculate

2) Express the fraction as a percent. 21

$$\frac{21}{28} \div 7 = \frac{3}{4} \div \frac{28}{100}$$

$$\frac{21}{28} \div 7 = \frac{3}{4} \div \frac{28}{100}$$

$$\frac{21}{28} \div 7 = \frac{3}{4} \div \frac{28}{100}$$

Estimating

-close to

49% of 82 \approx 50% of 82 = 41

25% of 98

~ 25% of 100= 25

9% of 75 $\approx 10\%$ of 75 = 7.5

Finish sheet from Last day

Worksheet Gr 8 Day 2 Percent of Number & Estimating on next 2 pages as well

Grade 8 Percent of a Number day 2 Mentally

Show work to calculate the following:

(a) 10 % of 90

(b) 50 % of 42

(c) 25% of 60

(e) 75 % of 24

(f) 15% of 80

(g) 1 % of 38

(i) 11% of 120

(j) 30% of 15

(k) 2% of 400

Use estimation to estimate the following

1) 9% of 160

2) 24% of 80

3) 51% of 40

5) 11% of 110

6) 29% of 60

7) 42% of 20

9) 25% of 20

10) 50% of 300

11) 50% of 60

13) 10% of 440

14) 20% of 500

15) 30% of 180

- 17) At the local music concert 300 people attended. 40% of the people were adults and the rest were students.
- A) How many adults attended?
- B) How many students attended