

PRACTICE: Percent
out of 100

$$\frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$

Name: _____

Date: _____

Show your work... don't forget to include a % sign when you need to!

1. Find the missing term:

a) $\frac{25}{100} = \frac{50}{x}$ $x = \frac{100 \times 50}{25}$ x = 200

b) $\frac{25}{100} = \frac{x}{50}$ x = _____

c) $\frac{x}{100} = \frac{50}{75}$ x = _____

d) $\frac{60}{100} = \frac{180}{x}$ x = _____

e) $\frac{40}{100} = \frac{20}{x}$ x = _____

2. Convert the following percents to decimals: $\div 100$

a) 78% $\frac{78}{100} \Rightarrow 78 \div 100$ 0.78

b) 93% _____

c) 125% _____

d) 324% _____

e) 0.5% _____

3. Calculate the following:

$$\frac{x}{300} = \frac{15}{100}$$

a) 15% of 300

$$0.15 \times 300 = 45$$

45

b) 45% of 1500

c) 140% of 70

d) 175% of 24

e) 7.8% of 50

4. Calculate the following percents (round your answer to the nearest tenth → one decimal place):

a) 65 out of 325

$$\frac{65}{325} = \frac{x}{100}$$

20.0%

b) 135 out of 405

c) 68 out of 40

d) 13 out of 65

e) 625 out of 50

5. About 90% of the mass of an apple is water. What is the mass of water for an apple that weighs 140 g?

6. The rule of thumb for purchasing downhill skis is that the length of your skis should be 5% more than your height. How long should the skis be for a person who is 160 cm tall?

7. About 8% of the mass of the human body is blood. What is the approximate mass of blood for a person who 70 kg?

8. Suzie scored 40 out of 48 on her elephant grooming proficiency test. What was her percent (rounded to one decimal place)?

9. On Spirit Day, 75% of the Grade 11s wore school colors. If 141 Grade 11s wore school colors, how many students are in Grade 11? _____

10. The average Canadian generates about 600 kg of solid waste per year. How much of this waste is:

a) paper (32%) _____ kg

b) metal and glass (15%) _____ kg

c) food waste (12%) _____ kg

d) yard waste (10%) _____ kg

e) plastics (8%) _____ kg

f) other (23%) _____ kg