

Math 8 Chapter 5 Practice Test

1. Complete the following table

Fraction (lowest terms)	Decimal	Percent
	0.15	
		85%
$\frac{4}{5}$		
	0.4	
		0.7%
$\frac{7}{8}$		
	0.0003	
		139%
$\frac{11}{10}$		

2. In 1895, the population of a small town was 2120. By 1905, the population increased to 115% of the 1895 figure.

a) What was the population in 1905?

b) Find the increase in population from 1895 to 1905.

3. Find the whole amount in each case.

a) 8% is 56 kg.

b) 125% is 85 cm.

c) 0.48% is 84 L.

4. In a sponsored walk for charity, 560 students participated. Of these, 0.72% completed the 15-km walk. How many students completed this distance?

5. Write each increase or decrease as a percent.

a) The price of gasoline rose from 132.5 cents/litre to 137.8 cents/litre.

Percent increase=

b) The number of trucks crossing the border fell from 3240 to 2673.

Percent decrease=

6. A water tank is filled with 1500 L of water. In 1 hour, the tank loses 5.4% of the water due to leakage. What is the volume of water in the tank after 1 hour?

7. HST is 12%. Calculate the selling price of each item before and after tax.

a) \$125 item at 10% off

b) \$1820 item at 25% off

c) \$6.80 item at 15% off

Before:

Before:

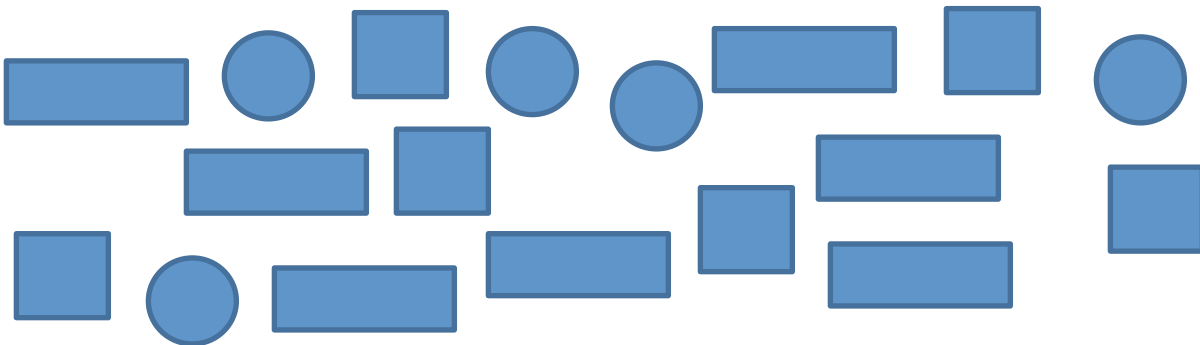
Before:

After:

After:

After:

10. Write each ratio.



a) squares to circles

b) rectangles and circles to squares

c) circles to total figures

11. Write three ratios equivalent to 36:18. Show your work.

36:18 =

12. Write each ratio in simplest form.

a) $25 : 15 =$

b) $28 : 35 =$

c) $45 : 72 =$

13. Class 8B has 3 globes for every 7 students. Class 8D has 2 globes for every 5 students. Each class has the same number of students. Which class has more globes? Explain.

14. At a summer camp, for every 3 students who sailed, 5 kayaked. Forty-five students kayaked. How many students sailed?

15. In a bag of coloured cubes, the ratio of red cubes to the total number of cubes is $5 : 7$. If there are 105 cubes in the bag, how many cubes are red?

16. Express as a unit rate.

a) The van travels 280 km in 4 hours.

b) Mikki jogs 2 km in 20 min.

17. Which is the better buy? 2.9 L of detergent for \$4.56 or 3.8 L for \$5.78