

Fill in the tables below.

1.

Ratio (Fraction)	Decimal	Percent
$\frac{4}{5}$	0.8	80%
$\frac{8}{100} = \frac{2}{25}$	0.08	8%
$\frac{25}{100} = \frac{1}{4}$	0.25	25%

2.

Ratio (Fraction)	Decimal	Percent
$\frac{74}{100} = \frac{37}{50}$	0.74	74%
$\frac{3}{8}$	0.375	37.5%
$\frac{4}{100} = \frac{1}{25}$	0.04	4%

Rewrite the following.

3. Rewrite $\frac{7}{8}$ as a percent.

$$0.875 = \boxed{87.5\%}$$

4. Rewrite $\frac{3}{12}$ as a decimal.

$$0.25$$

5. Rewrite 12.8% as a decimal.

$$0.128$$

6. Rewrite 0.05 as a percent.

$$5\%$$

7. Rewrite 0.17 as a fraction.

$$\frac{17}{100}$$

8. Rewrite 40% as a fraction.

$$0.40 = \frac{4}{10} = \boxed{\frac{2}{5}}$$

Answer the following.

9. In Chloe's closet, there are 10 shirts and 15 shorts.

a. What is the simplest ratio of shirts to shorts?

$$\frac{10}{15} = \boxed{\frac{2}{3}}$$

b. What is the simplest ratio of shirts to total items?

$$\frac{10}{25} = \boxed{\frac{2}{5}}$$

c. What percent of the items in the closet are shirts?

$$\frac{10}{25} = 0.4 = \boxed{40\%}$$

d. Chris has 4 shirts and 5 shorts in his closet. Is the ratio of shirts to shorts in Chris's closet the same as the ratio of Chloe's closet? Explain.

$$\frac{4}{5} = \frac{10}{15}$$

No!

$$0.8 \neq 0.6$$



$$0.8 = 0.6 \quad \times$$

Answer the following.

10. Scrooge McDuck has 8 quarters and 6 dimes in his pocket.

a. What is the simplest ratio of quarters to dimes? $\frac{8}{6} = \frac{4}{3}$

b. What percent of Scrooge's coins are dimes? $\frac{6}{14} = \frac{3}{7} = 0.4285 = 42.85\%$

c. If Hewey has 30 dimes in his pocket, how many quarters would he need in order to keep the same ratio as Scrooge?

$$\frac{30 \text{ dimes}}{? \text{ quarters}} = \frac{6 \text{ dimes}}{8 \text{ quarters}}$$

(Note: Arrows indicate multiplying both sides by 5 to solve for the unknown.)

40 quarters

$$\frac{30}{40} = \frac{6}{8}$$
$$0.75 = 0.75$$

11. Generic High School has a new ski club this year. In the club are 4 girls and 16 boys.

a. What is the simplest ratio of girls to boys in the ski club? $\frac{4}{16} = \frac{1}{4}$

b. What is the simplest ratio of girls to total members of the ski club?

$$\frac{4}{20} = \frac{1}{5}$$

c. What percent of the ski club is male?

$$\frac{16}{20} = \frac{4}{5}$$

d. The drama club has 12 girls and 48 boys. Is the ratio of girls to boys in the drama club the same as the ratio of girls to boys in the ski club?

$$\frac{12 \text{ girls}}{48 \text{ boys}} = \frac{4 \text{ girls}}{16 \text{ boys}}$$

YES!

😊 $0.25 = 0.25 \checkmark$

12. It takes you 3 hours to read 72 pages in your novel.

a. What is your ratio of pages read to hours? $\frac{72}{3} = \frac{24}{1} = 24$

b. Speed Reader reads 36 pages in 2 hours, does she read faster or slower than you?

$$\frac{36}{2} = \frac{18}{1} = 18$$

she is slower! $18 < 24$

c. How many pages per hour do you read?

$$\frac{72}{3} = 24 \text{ pages per hour}$$

d. If you maintain the same rate, how many pages can you read in 9 hours?

$$9(24) = 216 \text{ pages}$$