

Chapter 2 Practice Test

1. What is 4.7% written as a decimal?

$$4.7\% = \frac{4.7}{100} = \frac{47}{10000} = \frac{047}{10000} = .047$$

2. What is 59.1% written as a fraction in simplest form?

$$59.1\% = \frac{59.1}{100} = \frac{591}{1000}$$

3. What is 0.09 written as a percent?

$$.09 = 9\%$$

4. What is $6\frac{3}{25}$ written as a decimal?

$$6\frac{3}{25} = 6.12$$

$$\begin{array}{r} .12 \\ 25 \overline{) 3.00} \\ \underline{-25} \\ 50 \\ \underline{-50} \\ 0 \end{array}$$

5. What is 72.8% written as a fraction in simplest form?

$$72.8\% = \frac{72.8}{100} = \frac{728}{1000} = \frac{182}{250} = \frac{91}{125}$$

6. What is 350% written as a mixed number?

7. What is $3\frac{9}{20}$ written as a percent?

$$3\frac{9}{20} = 3\frac{45}{100} = 345\%$$

8. What is 82% written as a decimal?

$$82\% = .82$$

9. Find 0.25% of 40

$$\frac{?}{40} = \frac{.25}{100} \quad \left(\frac{.25}{100}\right)\left(\frac{40}{1}\right) = \frac{.5}{5} = \frac{5}{50} = \frac{1}{10} = .1$$

Find 260% of 27

$$\left(\frac{260}{100}\right)\left(\frac{27}{1}\right) = \frac{702}{5} = 140\frac{2}{5}$$

11. 18 is 25% of what number?

$$\frac{18}{?} = \frac{25}{100}$$

25	18
100	?

$$72$$

12. What is 38% of 50?

$$\frac{?}{50} = \frac{38}{100}$$

38	50
100	?

$$19$$

Name key

13. Fred completed 20 math problems. This is 25% of the number of math problems he has to do. How many math problems must he do? (2 points)

$$\frac{20}{\text{?}} = \frac{25}{100}$$

25	x	20
100	20	?

80 problems

Challenge question! This will be bonus!
14. A store is having a sale where movies are 30% off their original price. A movie is on sale for \$25.60. What was the original price of the movie? (2 points)

$$\frac{25.60}{\text{?}} = \frac{30}{100}$$

30	x	25.60
100	?	?

85.33

15. Put the following numbers $\frac{1}{3}$, 10%, $\frac{4}{5}$, and 0.40 from least to greatest. (2 points)

$\frac{1}{3} = .33$ 10% = .1
 $\frac{4}{5} = .8$ 10%, $\frac{1}{3}$, .4, $\frac{4}{5}$

16. Sosa got an 76% on her first science test, a $\frac{16}{20}$ on her second test, and a 0.79 on her third test. Which of the following orders her scores from least to greatest? (2 points)

76%, .79, 80%

$$\frac{16}{20} = \frac{80}{100} = 80\%$$

17. The original price of a bicycle is \$150. The sale price is 60% of the original price. What is the sale price of the bicycle? (2 points)

60	x	150
100	?	?

90

60% of 150 = 90

18. Use the chart to answer the following questions (3 points)

Superpower	Fraction of Kids
become invisible	$\frac{12}{25}$
fly	$\frac{13}{20}$
read minds	$\frac{23}{100}$
see at night	$\frac{17}{50}$
see into the future	$\frac{3}{10}$

$\frac{48}{100}$
 $\frac{65}{100}$
 $\frac{23}{100}$
 $\frac{34}{100}$
 $\frac{30}{100}$

a. Do more kids say they want to fly or become invisible?

$\frac{13}{20}$ vs. $\frac{12}{25}$ → $\frac{65}{100}$ vs. $\frac{48}{100}$
 $\times 5$ $\times 4$ $\times 4$
fly

b. Which superpower is chosen most often?

fly

c. Which superpower is chose least often?

read minds