

Name: _____

Date: _____

Fractions, Decimals, Percents

GRADE 7

MATHEMATICS

B1.7

B2.3

One amount, three costumes. A half is $\frac{1}{2}$, 0.5 and 50%. To turn a fraction into a decimal, divide the top by the bottom. To turn a decimal into a percent, multiply by 100.

PART A: THREE WAYS TO SAY IT

Match each fraction to its decimal and percent.

- | | | |
|-------------------|-------|-----------------------|
| 1. $\frac{1}{2}$ | _____ | A 0.1 and 10% |
| 2. $\frac{1}{4}$ | _____ | B 0.25 and 25% |
| 3. $\frac{3}{4}$ | _____ | C 0.75 and 75% |
| 4. $\frac{1}{10}$ | _____ | D 0.5 and 50% |

PART B: FILL THE GAP

5. $\frac{1}{2}$ written as a decimal is _____.
6. $\frac{1}{4}$ written as a percent is _____%.
7. 0.6 written as a percent is _____%.
8. 20% written as a decimal is _____.
9. 0.9 written as a percent is _____%.
10. 75% written as a decimal is _____.

PART C: PROGRESS, AND CHANGING THE GOAL

11. Saved \$50 of a \$100 goal is _____% of the way there.
12. Saved \$25 of a \$50 goal is _____% of the way there.
13. A \$60 goal is raised by 10%. The new goal is \$_____.
14. An \$80 goal is cut by 25%. The new goal is \$_____.

PART D: SAME AMOUNT?

15. Which of these is the same as 0.25?

- (A) 25% (B) 2.5% (C) 250%

16. Which of these is the same as $\frac{3}{4}$?

- (A) 75% (B) 34% (C) 0.34

PART E: SAY IT THREE WAYS

17. A student has saved \$40 of an \$80 goal. Write that progress as a fraction, a decimal and a percent. Then explain how you would raise that \$80 goal by 10% in your head, and say what the new goal would be.

1. D) 0.5 and 50%
2. B) 0.25 and 25%
3. C) 0.75 and 75%
4. A) 0.1 and 10%
5. 0.5
6. 25
7. 60
8. 0.2
9. 90
10. 0.75
11. 50
12. 50
13. 66
14. 60
15. A) 25%
16. A) 75%
17. $1/2$, 0.5 and 50%. To raise \$80 by 10%, find 10% by taking one tenth of it, which is \$8, then add that on to reach \$88.

TEACHER NOTES

Reduced expectations: only fractions with friendly denominators, and Part A matches complete rows before Part B asks for a single conversion. The Standard sheet in this unit handles eighths, where the decimals stop being tidy.