

% Percents & Proportion

Name: _____

Grade: 6 _____

Date: _____

Convert between fractions, decimals, percents. Solve percent proportion, percent of numbers, and real tax/tip scenarios.

Part 1 · Convert Forms CONVERT

(1. $\frac{2}{5} = \underline{\hspace{2cm}}\% = \underline{\hspace{2cm}}$

(2. $0.6 = \underline{\hspace{2cm}}\% = \underline{\hspace{2cm}}$ (fraction)

(3. $75\% = \underline{\hspace{2cm}}$ (fraction simplest)

(4. $0.125 = \underline{\hspace{2cm}}\% = \underline{\hspace{2cm}}$ (fraction simplest)

(5. $\frac{3}{8} = \underline{\hspace{2cm}}\%$ (nearest whole)

(6. $0.45 = \underline{\hspace{2cm}}\% = \underline{\hspace{2cm}}$ (fraction simplest)

Part 2 · Percent Proportion PROP

(7. 12 is 25% of $\underline{\hspace{2cm}}$

(8. 30% of 80 = $\underline{\hspace{2cm}}$

9. 15 is what percent of 60? _____%

10. 0.4 is what percent of 2? _____%

11. 18 is 60% of _____

12. 45% of 200 = _____

Part 3 · Percent of Numbers PART

13. 10% of 350 = _____

14. 25% of 88 = _____

15. 75% of 120 = _____

16. 40% of 250 = _____

17. 15% of 60 = _____

18. 5% of 80 = _____

Part 4 · Tax, Tip & Real Contexts REAL

19. A \$50 meal, 18% tip. Tip = \$_____ ; total = \$_____

20. \$120 item, 8% tax. Tax = \$_____ ; total = \$_____

21. \$80 shirt, 25% off. Discount = \$_____ ; sale price = \$_____

22. \$60 saved is 30% of goal. Goal = \$_____

23. 40% of class is 12 students. Class size = _____

24. Reflection: Most helpful strategy? _____

Part 5 · Error Analysis FIX

25. Error: $0.6 = 6\%$. Correct & mistake: _____ / _____

26. Error: 25% of 80 = $80 \div 25 = 3.2$. Correct & why: _____ / _____

27. Error: 45% of 200 = $45 \times 200 = 9,000$. Correct & why: _____ / _____

Part 6 · Challenge CHALLENGE

28. 18 is 30% of what number? _____

29. A number increases from 40 to 50. Percent increase = _____%

30. 12.5% of 96 = _____

(31. 45% of 200 = _____ ; 5% more = _____

(32. Fill blank: $\frac{2}{3} \approx$ _____ % (nearest whole)

(33. Reflection: Most helpful strategy? _____

Answer Key

1. 40%; 0.4
2. 60%; $\frac{3}{5}$
3. $\frac{3}{4}$
4. 12.5%; $\frac{1}{8}$
5. 38%
6. 45%; $\frac{9}{20}$
7. 48
8. 24
9. 25%
10. 20%
11. 30
12. 90
13. 35
14. 22
15. 90
16. 100
17. 9
18. 4
19. 9; 59
20. 9.6; 129.6
21. 20; 140
22. 200
23. 30
24. Varies
25. 60% / moved decimal wrong
26. 20 / multiply not divide
27. 90 / multiply by percent not whole
28. 60
29. 25%
30. 12
31. 90;100
32. 67%
33. Varies

Accept equivalent forms. Reflection varies.