% Percent & Ratio Intro

Name: Grade: 5 Date:

Link fractions, decimals, percents & ratios. Use benchmark percents (10%, 25%, 50%, 75%, 100%) and quick strategies (1%, ×10, quarters, halves) to solve real problems.

Part 1 · Fraction ≠ Percent ≠ Decimal CONVERT

Part 2 · Benchmark Reasoning BENCH

7. Closer to 50%: 47% or 54%?

9. 75% of a number is its _____ plus its _____

11. 10% of 640 = _____; 1% =

Part 3 · Percent of a Number PART

Part 4 · Ratios & Forms RATIO

Part 5 · Equivalent Percents & Fractions EQUIV

Part 6 · Word Problems

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SALE 31. A $40 game is 25% off. Discount = $_____; sale price = $_____
   SURVEY 32. 60% of 250 students like soccer. Number = _____
   SAVINGS 33. Saved 30% of $90. You saved $_____; need $_____ more for
   full amount.
  class 34. Class ratio pencils working:broken = 7:3. Fraction broken = \_; percent \approx \_
   RECIPE 35. 15% of a 80 g mix is spice. Grams spice = _____
   SCREEN 36. Battery at 40%, total 5,000 mAh. Remaining mAh = _____
Part 7 · Error Analysis & Strategy FIX
  37. Error: Student says 0.6 = 6%. Correct percent & mistake: _____/
  38. Error: Called 3:5 = 3/10. Correct fraction of total & reason: _____/
  39. Student finds 25% of 48 by 48 ÷ 2 = 24. Correct answer & why: _____/
Part 8 · Challenge & Reflection CHALLENGE
 40. 18 is 30% of what number? _____
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41. A number increases from 40 to 50. Percent increase = _____%

42. Find 12.5% of 96 = ____ (use 1/8)

43. 45% of 200 = _____; 5% more = _____

44. Fill blank: 2/3 ≈ _____% (nearest whole)

45. Reflection: Strategy most helpful today? _____

Answer Key

- 1. 50%; 0.5
- 2. 75%; 0.75
- 3. 40%; 0.4
- 4. 70%; 0.7
- 5. 1/8
- 6. 45%; 9/20
- 7.54%
- 8. 20%;10%
- 9. Half + quarter
- 10. 25/100=1/4
- 11. 64;6.4
- 12.30
- 13. 21
- 14. 158
- 15. 47
- 16. 90
- 17. 27
- 18. 9
- 19. 3:4
- 20.3/8
- 21. 2:5
- 22.3/5
- 23. 2:3;2/3
- 24. 25
- 25. 20;1/5
- 26. 2/5
- 27.3/5
- 28.9/10
- 29.48%
- 30. 35%
- 31. 10;30
- 32. 150;100
- 33. 21;27
- 34. 7/10;70%
- 35. 12
- 36. 2,000
- 37. 60% / moved decimal wrong
- 38. 3/8 / total is 3+5 parts =8

- 39. 12 / used 1/2 not 1/4
- 40.60
- 41. 25%
- 42.12
- 43. 90;100
- 44.67%
- 45. Varies

Accept equivalent fraction simplifications. Approximation: 2/3 \approx 66.6% \rightarrow 67%. Reflection varies.