

Solving Percent Problems with Formulas

Date _____ Period _____

Solve each problem.

- 1) A survey shows that 28 out of 35 people prefer cheese pizza over veggie pizza. What percent of people said they prefer cheese pizza?

- 2) Heather attempted 25 penalty kicks and made 20% of them. How many penalty kicks did she make?

- 3) Using a 90% off coupon, Cody purchases a basketball game ticket and ends up saving \$63. What was the regular price?

- 4) A survey shows that 40% of students prefer action movies over comedy movies. If 30 students participated in the survey, how many students said they prefer action movies?

- 5) Cody made 28% of his field goal attempts. If he made 14 field goals, how many did he attempt?

6) What percent of 18 is 9?

7) What percent of 50 is 48?

8) What is 40% of 10?

9) What is 25% of 80?

10) 80% of what number is 16?

11) 20% of what number is 2?

12) What percent of 25 is 0.24?

13) What is 0.25% of 48?

14) 0.4% of what number is 0.28?

15) What percent of 50 is 58?

16) What is 140% of 50?

17) 150% of what number is 18?

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Date _____ Period _____

Solve each problem.

- 1) A survey shows that 28 out of 35 people prefer cheese pizza over veggie pizza. What percent of people said they prefer cheese pizza?

$$100 \times \frac{28}{35} = 80 \%$$

80%

- 2) Heather attempted 25 penalty kicks and made 20% of them. How many penalty kicks did she make?

$$25 \times \frac{20}{100} = 5$$

5 penalty kicks

- 3) Using a 90% off coupon, Cody purchases a basketball game ticket and ends up saving \$63. What was the regular price?

$$63 \times \frac{100}{90} = 70$$

\$70

- 4) A survey shows that 40% of students prefer action movies over comedy movies. If 30 students participated in the survey, how many students said they prefer action movies?

$$30 \times \frac{40}{100} = 12$$

12 students

- 5) Cody made 28% of his field goal attempts. If he made 14 field goals, how many did he attempt?

$$14 \times \frac{100}{28} = 50$$

50 field goals

6) What percent of 18 is 9?

$$100 \times \frac{9}{18} = 50 \%$$

50%

7) What percent of 50 is 48?

$$100 \times \frac{48}{50} = 96 \%$$

96%

8) What is 40% of 10?

$$10 \times \frac{40}{100} = 4$$

4

9) What is 25% of 80?

$$80 \times \frac{25}{100} = 20$$

20

10) 80% of what number is 16?

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

20

11) 20% of what number is 2?

$$2 \times \frac{100}{20} = 10$$

10

12) What percent of 25 is 0.24?

$$100 \times \frac{0.24}{25} = 0.96 \%$$

0.96%

13) What is 0.25% of 48?

$$48 \times \frac{0.25}{100} = 0.12$$

0.12

14) 0.4% of what number is 0.28?

$$0.28 \times \frac{100}{0.4} = 70$$

70

15) What percent of 50 is 58?

$$100 \times \frac{58}{50} = 116 \%$$

116%

16) What is 140% of 50?

$$50 \times \frac{140}{100} = 70$$

70

17) 150% of what number is 18?

$$18 \times \frac{100}{150} = 12$$

12