Ratio and Proportion Extra Practice Name _____

1. Ratio of girls to boys is 3:8. If there are 48 boys, how many girls are there?

2. Ratio of teachers to students is 2:15. If there are 18 teachers, how many students are there?

3. Ratio of sweaters to vests is 6:5. If there are 30 vests, how many sweaters are there?

4. Ratio of dolls to barbies is 9:4. If there are 36 dolls, how many barbies are there?

5. Ratio of correct answers to incorrect answers is 11:4. If there are 28 incorrect answers, how many correct answers are there?

6. Ratio of trucks to cars is 5:12. If there are 50 trucks, how many cars are there?

7. The ratio of crackers to pretzels is 9:12. If there are 15 crackers, then how many pretzels are there?

8. The ratio of pots to pans is 20:32. If there are 48 pans, how many pots are there?

9. The ratio of red marbles to black marbles is 18:4. If there are 6 black marbles, how many red marbles are there?

10. The ratio of pairs of sneakers to pairs of sandals is 27:21. If there are 49 pairs of sandals, how many pairs of sneakers are there?

11. The ratio of jeans to shorts is 16:12. If there are 32 jeans, how many shorts are there?

12. The ratio pencils to pens are 35:15. If there are 21 pencils, how many pens are there?

13. When playing basketball, Jeremy always makes 2 out of every 5 shots. If Jeremy takes 25 shots, how many times will he make the basket?

14. Jesse's phone rang 3 times in 10 minutes. How many times do you estimate the phone will ring in 40 minutes?

15. Stuart visited 40 people in 4 hours. How long will it take Stuart to visit 120 people?

16. Bethany typed 35 words in 2 minutes. If Beth were to type for 10 minutes at the same speed, how many words would she type?

17. On a typical day, Susan noticed that 4 out of every 9 birds were robins. If Susan saw 63 birds, how many of them were robins?

18. Barb wants to get 8 out of every 10 questions right on her test. If there are 35 questions on the test, how many will Barb want to get right.

19. Connor watched 4 movies in 6 hours. How long would it take Connor to watch 10 movies?

20. A company has 3 cars for every 9 trucks it owns. If the company owns 31 cars, how many trucks do the company own?

21. Rusty walked 5 miles in 65 minutes. How long did it take him to walk 2 mile?

22. Solomon goes jogging 4 out of every 6 days. How many times will Solomon jog in 3 weeks?

Ratio and Proportion Extra Practice Name Key

1. Ratio of girls to boys is 3:8. If there are 48 boys, how many girls are there?

girls / boys 3 × 6 = 18 girls / 8 × 6 = 48 boys

18 girls

2. Ratio of teachers to students is 2:15. If there are 18 teachers, how many students are there?

teachers / students 2 × 9 = 18 teachers / 15 × 9 = 135 students

135 students

3. Ratio of sweaters to vests is 6:5. If there are 30 vests, how many sweaters are there?

sweaters / vests 6 × 6 = 36 sweaters / 5 × 6 = 30 vests

36 sweaters

4. Ratio of dolls to barbies is 9:4. If there are 36 dolls, how many barbies are there?

dolls / barbies 9 × 4 = 36 dolls / 4 × 4 = 16 barbies

16 barbies

5. Ratio of correct answers to incorrect answers is 11:4. If there are 28 incorrect answers, how many correct answers are there?

correct / incorrect 11 × 7 = 77 correct / 4 × 7 = 28 incorrect

77 correct

6. Ratio of trucks to cars is 5:12. If there are 50 trucks, how many cars are there?

trucks / cars 5 × 10 = 50 trucks / 12 × 10 = 120 cars

120 cars

7. The ratio of crackers to pretzels is 9:12. If there are 15 crackers, then how many pretzels are there?

$\frac{\text{crackers}}{\text{pretzels}}$ $\frac{9}{12} = \frac{15 \text{ crackers}}{20 \text{ pretzels}}$ 20 pretzels

$\frac{9}{12} = \frac{3 \times 5 = 15}{4 \times 5 = 20}$

8. The ratio of pots to pans is 20:32. If there are 48 pans, how many pots are there?

$\frac{\text{pots}}{\text{pans}}$ $\frac{20}{32} = \frac{30 \text{ pots}}{48 \text{ pans}}$ 30 pots

$\frac{20}{32} = \frac{5 \times 6 = 30}{8 \times 6 = 48}$

9. The ratio of red marbles to black marbles is 18:4. If there are 6 black marbles, how many red marbles are there?

$\frac{\text{red}}{\text{black}}$ $\frac{18}{4} = \frac{27 \text{ red}}{6 \text{ black}}$ 27 red marbles

$\frac{18}{4} = \frac{9 \times 3}{2 \times 3} = \frac{27}{6}$

10. The ratio of pairs of sneakers to pairs of sandals is 27:21. If there are 49 pairs of sandals, how many pairs of sneakers are there?

$\frac{\text{sneakers}}{\text{sandals}}$ $\frac{27}{21} = \frac{63 \text{ sneakers}}{49 \text{ sandals}}$ 63 sneakers

$\frac{27}{21} = \frac{9 \times 7 = 63}{7 \times 7 = 49}$

11. The ratio of jeans to shorts is 16:12. If there are 32 jeans, how many shorts are there?

$\frac{\text{jeans}}{\text{shorts}}$ $\frac{16 \times 2}{12 \times 2} = \frac{32 \text{ jeans}}{24 \text{ shorts}}$ 24 shorts

12. The ratio pencils to pens are 35:15. If there are 21 pencils, how many pens are there?

$\frac{\text{pencils}}{\text{pens}}$ $\frac{35}{15} = \frac{21 \text{ pencils}}{9 \text{ pens}}$ 9 pens

$\frac{35}{15} = \frac{7 \times 3 = 21}{3 \times 3 = 9}$

13. When playing basketball, Jeremy always makes 2 out of every 5 shots. If Jeremy takes 25 shots, how many times will he make the basket?

$\frac{\text{Baskets}}{\text{Shots}}$ $\frac{2}{5} \times 5 = \frac{10}{25}$ 10 baskets / 25 shots

10 baskets

14. Jesse's phone rang 3 times in 10 minutes. How many times do you estimate the phone will ring in 40 minutes?

$\frac{\#\text{ of times}}{\#\text{ of minutes}}$ $\frac{3}{10} \times 4 = \frac{12}{40}$ times / minutes

12 times

15. Stuart visited 40 people in 4 hours. How long will it take Stuart to visit 120 people?

$\frac{\text{people}}{\text{hours}}$ $\frac{40}{4} \times 3 = \frac{120}{12}$ people / hours

12 hours

16. Bethany typed 35 words in 2 minutes. If Beth were to type for 10 minutes at the same speed, how many words would she type?

$\frac{\text{words}}{\text{minutes}}$ $\frac{35}{2} \times 5 = \frac{175}{10}$ words / minutes

175 words

17. On a typical day, Susan noticed that 4 out of every 9 birds were robins. If Susan saw 63 birds, how many of them were robins?

$\frac{\text{Birds}}{\text{Robins}}$ $\frac{9}{4} \times 7 = \frac{63}{28}$ birds / Robins

28 Robins

18. Barb wants to get 8 out of every 10 questions right on her test. If there are 35 questions on the test, how many will Barb want to get right.

28 right

$\frac{8 \text{ \#right}}{10 \text{ question}} = \frac{8}{10} = \frac{28 \text{ \#right}}{35 \text{ questions}}$

$\frac{8}{10} = \frac{4}{5} \times 7 = 28$

$\frac{8}{10} = \frac{4}{5} \times 7 = 35$

19. Connor watched 4 movies in 6 hours. How long would it take Connor to watch 10 movies?

$\frac{\text{movies } 4}{\text{hours } 6} = \frac{10 \text{ movies}}{15 \text{ hours}}$

15 hours

$\frac{4}{6} = \frac{2}{3} \times \frac{5}{5} = 10$

$\frac{4}{6} = \frac{2}{3} \times 5 = 15$

20. A company has 3 cars for every 9 trucks it owns. If the company owns 31 cars, how many trucks do the company own?

$\frac{\text{Cars } 3}{\text{trucks } 9} = \frac{31 \text{ cars}}{93 \text{ trucks}}$

93 trucks

$\frac{3}{9} = \frac{1}{3} \times 31 = 31$

$\frac{3}{9} = \frac{1}{3} \times 31 = 93$

21. Rusty walked 5 miles in 65 minutes. How long did it take him to walk 2 mile?

$\frac{\text{miles } 5}{\text{minutes } 65} = \frac{2 \text{ miles}}{26 \text{ minutes}}$

26 minutes

$\frac{5 \div 5}{65 \div 5} = \frac{1}{13} \times 2 = 2$

$\frac{5 \div 5}{65 \div 5} = \frac{1}{13} \times 2 = 26$

22. Solomon goes jogging 4 out of every 6 days. How many times will Solomon jog in 3 weeks?

$7 \times 3 = 21$

$\frac{\text{days jogging } 4}{\text{\# of days } 6} = \frac{14 \text{ \# of days jogging}}{21 \text{ days total}}$

14 days total jogging

$\frac{4}{6} = \frac{2}{3} \times 7 = 14$

$\frac{4}{6} = \frac{2}{3} \times 7 = 21$