

Ratio and Percent

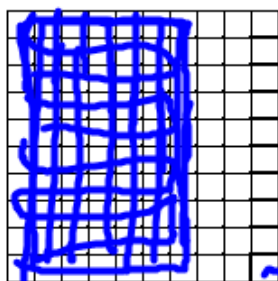
Lesson 3-10

DATE _____

TIME _____

Math Message

- 1 Shade the grid. Fill in the missing numbers for the fractions, decimals, and percents. Write the ratio of shaded squares to total squares using ratio notation.

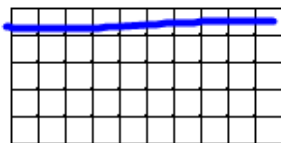


Fraction: $\frac{70}{100}$ or $\frac{7}{10}$

Decimal: $.70$

Percent: 70%

Ratio: $7:10$ $70:100$

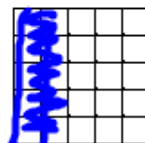


Fraction: _____

Decimal: 0.20

Percent: _____%

Ratio: _____



Fraction: $\frac{40}{100}$

Decimal: _____

Percent: _____%

Ratio: _____

- 2 Write the ratio of the shaded part to the whole. Use the ratio/rate table to find the ratio out of 100.

a. Ratio: $8:10$

Shaded	8	80
Total	10	100

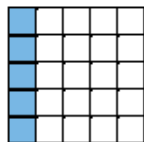
Percent: 80



b. Ratio: $5:25$ $20:100$

Shaded	5	20
Total	25	100

Percent: 20%



c. Ratio: $6:8$ $6:8$ $\frac{6}{8}$

Shaded	6	3			75
Total	8	4			100

Percent: 75%



Ordering Jeans

Lesson 3-10

DATE

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- 1 Lucy is opening Lucky Lucy's Jeans store. She uses data for sales from a similar store to make her decisions.

Sales figures from Jeanette's Jeans:

- 22% of sales from Bootcut Jeans
- 46% of sales from Slim Fit Jeans
- 4% of sales from Straight Leg Jeans
- 28% of sales from Wide Leg Jeans

Lucy plans to buy 1,400 pairs of jeans. If she buys jeans in the same ratio as those sold at Jeanette's Jeans, how many of each style should she buy?

Use ratio/rate tables to show how you solve the problem. (Remember to include the entry that is out of 100 in the table. For example, for 22% the corresponding table entry would be $\frac{22}{100}$, or 22 Bootcut Jeans out of 100 total jeans.)

Bootcut Jeans: _____ pairs

$$\frac{22}{100} = \frac{x}{1400}$$

$$.22 * 1400$$

Straight Leg Jeans: _____ pairs

56

Slim Fit Jeans: _____ pairs

644

Wide Leg Jeans: _____ pairs

392

Handwritten notes and calculations:

1% of 1400
14 = 1%

$$22 \cdot 14 = 308$$

P	22	1
W	100	1400

152
308
1400

Ordering Jeans (continued)

Lesson 3-10

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- 2 One week, Lucy ordered 224 pairs of Straight Leg Jeans. That was 80% of the total jeans ordered that week.

How many pairs of jeans were in the total order?

J	224	56		280
T	40	20		100

Jeans
8 total

224	X
80	100

40

- 3 Lucy had a sale on her Straight Leg Jeans. The regular price is \$39.99. She took 20% off.

About what was the sale price? \$32

$$80\% \text{ of } 40 = \frac{8}{10} \times 40 = 32$$

- 4 During her best week, Lucy sold 250% of the number of jeans she sold in her worst week. (Hint: This means that for every 100 pairs of jeans Lucy sold in her worst week, she sold 250 in her best week.) She sold 450 in her best week.

How many pairs of jeans did she sell in her worst week? _____

Try This

- 5 Lucy earns a 45% profit on each pair of jeans she sells. What style should she try to sell the most of? Explain.

Price	Style
\$39.99	Straight Leg
\$29.99	Bootcut
\$34.99	Slim Fit
\$24.99	Wide Leg

About what is the profit for selling 100 pairs of the most profitable jeans? _____

Math Boxes

Preview for Unit 4

Lesson 3-10

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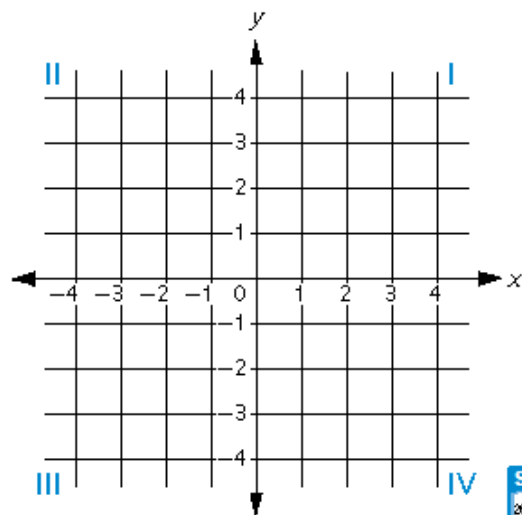
- 1 Write five names for the number in the name-collection box. Use addition, subtraction, multiplication, and division.

52

SRB
206

- 2 Plot the ordered pairs below and connect the points to make polygon $ABDC$.

A: $(-2, 1)$ B: $(-2, 4)$ C: $(2, 1)$ D: $(2, 4)$



SRB
255-256

- 3 Find the missing number.

- a. $12 + \underline{\hspace{2cm}} = 25$
 b. $7.5 + \underline{\hspace{2cm}} = 20$
 c. $25 + 5 * \underline{\hspace{2cm}} = 35$

SRB
208-209

- 4 Compare using $<$, $>$, or $=$.

- a. $8 + (3 + 10) \underline{\hspace{1cm}} (8 + 3) + 10$
 b. $12 \div (4 + 2) \underline{\hspace{1cm}} (12 \div 4) + 2$
 c. $15 * (5 * 5) \underline{\hspace{1cm}} 25 * 15$
 d. $20 - (15 - 3) \underline{\hspace{1cm}} (20 - 15) - 3$

SRB
210

- 5 **Writing/Reasoning** Describe two ways you could solve Problem 3c.