

Mixed Review

Solve each proportion.

1. $\frac{n}{574} = \frac{55}{902}$	2. $\frac{80}{88} = \frac{70}{k}$	3. $\frac{30}{r} = \frac{10}{6}$
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Complete the unit conversions.

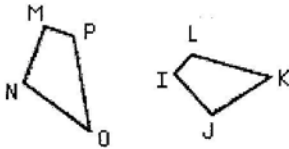
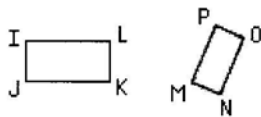
4. 23 quarts to pints $23 \text{ qt} \cdot \frac{\text{pt}}{\text{qt}} = \text{_____ pints}$	5. 13 gallons to quarts $13 \text{ gal} \cdot \frac{\text{qt}}{\text{gal}} = \text{_____ quarts}$
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Complete the unit conversions.

6. 30 feet to yards	7. 8 gallons to pints
8. 52 cups to quarts	9. 16 centimeters to millimeters
10. 4,000 milligrams to grams	11. 28,000 liters to kiloliters

Use a proportion to find the unknown length in the pair of similar figures.

(drawings are not drawn to scale)

<p>12.</p>  <p>length of sides:</p> <table> <tr> <td>PM = 128 cm</td> <td>LK = 45 cm</td> </tr> <tr> <td>OP = 80 cm</td> <td>JI = 27 cm</td> </tr> <tr> <td>NO = 64 cm</td> <td>KJ = _____</td> </tr> <tr> <td>MN = 48 cm</td> <td>IL = 36 cm</td> </tr> </table>	PM = 128 cm	LK = 45 cm	OP = 80 cm	JI = 27 cm	NO = 64 cm	KJ = _____	MN = 48 cm	IL = 36 cm	<p>13.</p>  <p>length of sides:</p> <table> <tr> <td>KL = _____</td> <td>PM = 72 ft</td> </tr> <tr> <td>LI = 36 ft</td> <td>OP = 80 ft</td> </tr> <tr> <td>IJ = 40 ft</td> <td>NO = 72 ft</td> </tr> <tr> <td>JK = 36 ft</td> <td>MN = 80 ft</td> </tr> </table>	KL = _____	PM = 72 ft	LI = 36 ft	OP = 80 ft	IJ = 40 ft	NO = 72 ft	JK = 36 ft	MN = 80 ft
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Create a proportion from each set of numbers. Only use 4 numbers from each set of numbers.

14. 60, 40, 528, 792	15. 520, 780, 37, 32, 48
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Fill in the missing dimensions. Round your answer to the nearest tenth.

16. The scale factor for a model is 9 in = 10 yd model: _____ in actual: 45.8 yd	17. The scale of a map is 3 in = 9.5 mi map: 5.6 in actual: _____ mi
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Complete.

18. You have the set of numbers $\{-10, 0, 8, 10, -4, -6, -7, 2, 10, 7, 1\}$. What is the ratio of negative numbers to positive numbers?	19. A scientist counted birds in a cornfield. He counted four crows, five jays and fourteen hawks. What was the ratio of hawks to crows?
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Solve each proportion.

20. $\frac{7}{14} = \frac{w}{18}$	21. $\frac{1218}{z} = \frac{783}{27}$	22. $\frac{d}{30} = \frac{280.5}{75}$
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