MasterMath

Number Sense

WRITING AND SOLVING PROPORTIONS

WRITING & SOLVING PROPORTIONS

Your brother helped Dad last weekend. He worked 4 hours and Dad paid him $12. Your Dad said you could help him this weekend, and he said he'd be fair and pay you an amount proportional to what your brother earned. You worked 5 hours. How much should your Dad pay you to be fair?

Writing and Solving P

WRITING & SOLVING PROPORTIONS

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$$\frac{\$12}{4\text{hrs}} = \frac{P}{5\text{hrs}}$$

Writing and Solving P

WRITING & SOLVING PROPORTONS

Cross Products

Your brother helped Dad last weekend. He worked 4 hours and Dad paid him $12. Your Dad said you could help him this weekend, and he said he'd be fair and pay you an amount proportional to what your brother earned. You worked 5 hours. How much should your Dad pay you to be fair (P)?

$$\frac{\$12}{4\text{hrs}} = \frac{P}{5\text{hrs}}$$

$$12 \times 5 = 4 \times P$$
$$60 = 4 \times P$$
$$60 \div 4 = 4 \times P \div 4$$
$$15 = P$$

Writing and Solving P

WRITING & SOLVING PROPORTIONS

Algebra

Your brother helped Dad last weekend. He worked 4 hours and Dad paid him $12. Your Dad said you could help him this weekend, and he said he'd be fair and pay you an amount proportional to what your brother earned. You worked 5 hours. How much should your Dad pay you to be fair (P)?

$$\frac{\$12}{4\text{hrs}} = \frac{P}{5\text{hrs}}$$

$$\frac{\$12 \times 5\text{hrs}}{4\text{hrs}} = \frac{P \times 5\text{hrs}}{5\text{hrs}}$$

$$\frac{\$60}{4} = P$$
$$\$15 = P$$

Writing and Solving P

WRITING & SOLVING PROPORTIONS

Mental Math

Your brother helped Dad last weekend. He worked 4 hours and Dad paid him $12. Your Dad said you could help him this weekend, and he said he'd be fair and pay you an amount proportional to what your brother earned. You worked 5 hours. How much should your Dad pay you to be fair (P)?

$4 \times ? = 12$
$4 \times 3 = 12$

$$\frac{12}{4} = \frac{P}{5}$$

$5 \times 3 = 15$

Writing and Solving P

WRITING & SOLVING PROPORTIONS

Mental Math

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12 x 1.25 = 15

$$\frac{12}{4} = \frac{P}{5}$$

4 x ? = 5

4 x 1.25 = 5

Writing and Solving P

You try it!

Your Aunt Rose's recipe for a loaf of banana bread calls for 2 bananas, 3 cups of flour, 1 cup of milk, a cup of walnuts and a pinch of yeast. You want to make 3 loafs of the bread. How many cups of flour do you need?

Writing and Solving P

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$$\frac{3 \text{ cups}}{1 \text{ loaf}} = \frac{x}{3 \text{ loafs}}$$

$$9 = x$$

Writing and Solving P

You try it!

Joe's Trucking sent one truck west to a job. That truck drove 150 miles and used 12 gallons of gas. Joe's sent another truck east to a job that was 450 miles away. If both trucks get the same miles per gallon, how many gallons did the 2nd truck burn?

Writing and Solving Pro

You try it!

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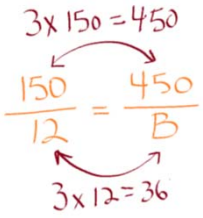

Writing and Solving P

You try it!

Now, try it on your own. Go to www.MasterMath.info download *Writing and Solving Proportions* from the Worksheets Page, and test your skill.

Writing and Solving P