WEB MATH MINUTE

100 ÷ 10	6 × 1	96 ÷ 12	7 × 2	6 ÷ 2	20 ÷ 2	11 × 5	132 ÷ 12	12 × 11	9 ÷ 1
16 ÷ 2	1 × 2	5 × 6	9 × 10	4 × 1	2 × 4	44 ÷ 11	9 ÷ 3	9 × 3	10 × 10
80 ÷ 8	5 × 12	7 × 1	8 × 9	3 × 2	18 ÷ 2	7 × 3	60 ÷ 10	12 ÷ 4	121 ÷ 11
5 × 8	72 ÷ 8	48 ÷ 4	9 × 11	1 × 7	10 × 2	72 ÷ 9	8 × 4	77 ÷ 11	9 ÷ 9
4 × 2	45 ÷ 9	10 × 12	7 × 9	10 × 5	3 × 5	11 × 2	21 ÷ 3	7 × 4	4 × 10

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Here is a completed box challenge puzzle. If you look at it closely, you'll see that the number at the top is the product of the two numbers on the left and right, and the number at the bottom is the sum of the two numbers on the left and right.

$$3 \times 15 = 45$$
$$3 + 15 = 18$$
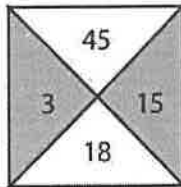
(box: top 45, left 3, right 15, bottom 18)

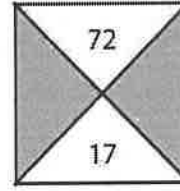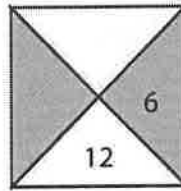**1** Fill in the blanks to complete each of the box challenge puzzles below. Remember that the number at the top is the *product* of the two numbers on the sides, and the number at the bottom is the *sum* of the two numbers on the sides.

(box: top 35, left 7)   (box: right 6, bottom 12)   (box: top 72, bottom 17)
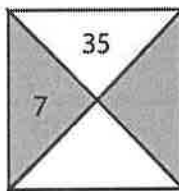
2 Evaluate each expression.

a $(14 \times 3) \times 10$

b $4 \times (9 \times 20)$

c $(600 \div 20) \times 5$

d $99 \times (99 + 1)$

3 Julia said that she solved the problem $360 \div 12$ by dividing 36 by 12 and then multiplying her answer by 10. Write an expression to show her thinking.

4 Lucas said he solved $360 \div 12$ by multiplying 12 by 3 and then multiplying the product by 10. Write an expression to show his thinking.

5 Who got the correct quotient (answer), Julia or Lucas?

6 Billy said that he thinks 30×176 is three times larger than 10×176. Do you agree or disagree? Explain your thinking.

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7 Write the following decimals in standard form.

a $1,000 + 6 + 0.1 + 0.003$

b Fourteen and three hundred ninety-seven thousandths

8 Write the following decimals in word form.

a $10 + 0.06 + 0.008$

b 40.545

9 Write the following decimals in expanded notation.

a Seven hundred twenty-two and sixteen-thousandths

b 938.120

10 Compare the decimals. Fill in each blank with <, >, or =.
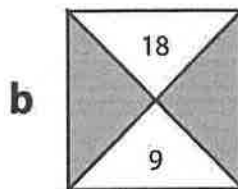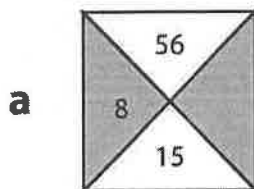
a 160.30 _____ 160.03   **b** 7.098 _____ 7.908

c 3.071 _____ 3.701   **d** 90.0 _____ 0.90

NAME _____ | DATE _____

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1 Complete the box challenges below.

a

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      56
    8   
      15
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b

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      18

       9
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2 The craft store sells large boxes of modeling clay that hold 18 sticks each. Complete the ratio table to find out how many sticks there are in different numbers of boxes.

Large Boxes	1	2	3	5	10	50	55
Sticks of Clay	18						

3 You can also buy small boxes of modeling clay at the craft store for $3.50 each. Find out how much it would cost to buy different numbers of small boxes of clay.

Small Boxes	1	2	10	20	19	40	39
Cost	$3.50						

4 Solve the problems in the string below. Use the answers from the first few combinations to help solve the rest.

a 36×10

b 36×5

c 36×15

d 36×100

e 36×50

f $1,872 \div 36$

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5 Solve the problems in this string.

   a $36 \div 18$

   b $72 \div 18$

   c $108 \div 18$

   d $180 \div 18$

   e $1800 \div 18$

   f 18×99

6 **CHALLENGE** Noah loves the Half-Tens facts and often uses them to solve multiplication problems. Make up a 2-digit by 3-digit multiplication problem for which using Half-Ten facts is efficient. Then, solve the problem using that strategy.