

Decomposing by Distributing

Assignment–Teacher Edition

Math

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Part A:

Fill in the blanks to complete the equations.

1. $9 \times 5 = (6 \times 5) + (3 \times 5)$
 $= 30 + 15$
 $= 45$

2. $36 \div 4 = (20 \div 4) + (16 \div 4)$
 $= 5 + 4$
 $= 9$

3. $40 \div 5 = (10 \div 5) + (30 \div 5)$
 $= 2 + 6$
 $= 8$

4. $7 \times 3 = (4 \times 3) + (3 \times 3)$
 $= 12 + 9$
 $= 21$

Decomposing by Distributing

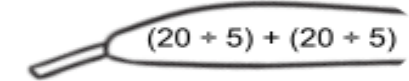
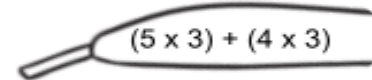
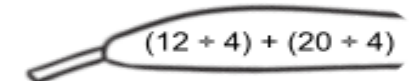
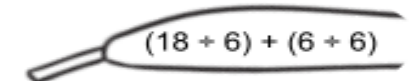
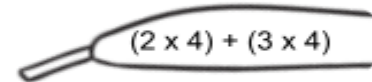
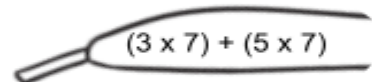
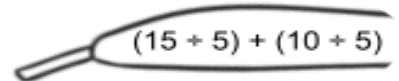
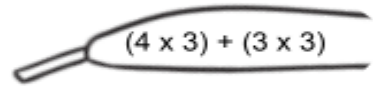
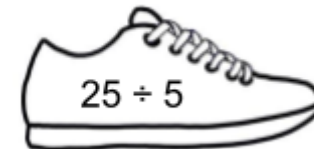
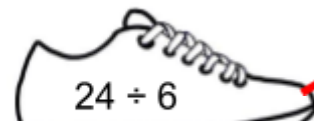
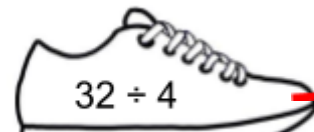
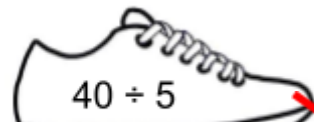
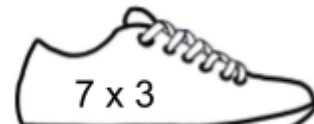
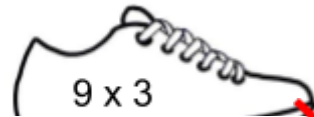
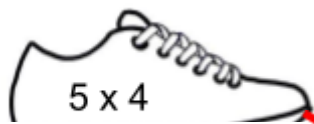
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Part B:

Match the shoe to its shoelace that has its decomposed expression.



Decomposing by Distributing Assignment–Teacher Edition **Math**

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Part C:

Decompose the numbers on top in order to answer the expression.

1. $8 \times 7 = 56$

2. $45 \div 5 = 9$

3 sevens + 5 sevens = 8 sevens
 $(3 \times 7) + (5 \times 7) = 8 \times 7$
 $21 + 35 = 56$
 $8 \times 7 = 56$

$(25 \div 5) + (20 \div 5) = 45 \div 5$
 $5 + 4 = 9$
 $45 \div 5 = 9$

3. $30 \div 3 = 10$

4. $9 \times 6 = 54$

$(18 \div 3) + (12 \div 3) = 30 \div 3$
 $6 + 4 = 10$
 $30 \div 3 = 10$

4 sixes + 5 sixes = 9 sixes
 $(4 \times 6) + (5 \times 6) = 9 \times 6$
 $24 + 30 = 54$
 $9 \times 6 = 54$

Decomposing by Distributing Assignment–Teacher Edition**3****Part D:**

Distribute the following expressions.

$$9 \times 3 = (4 \times 3) + (5 \times 3) = 12 + 15 = 27$$

$$8 \times 6 = (4 \times 6) + (4 \times 6) = 24 + 24 = 48$$

$$7 \times 5 = (3 \times 5) + (4 \times 5) = 15 + 20 = 35$$

$$6 \times 4 = (4 \times 4) + (2 \times 4) = 16 + 8 = 24$$

$$9 \times 7 = (5 \times 7) + (4 \times 7) = 35 + 28 = 63$$

$$8 \times 3 = (3 \times 3) + (5 \times 3) = 9 + 15 = 24$$

$$36 \div 4 = (24 \div 4) + (12 \div 4) = 6 + 3 = 9$$

$$42 \div 6 = (30 \div 6) + (12 \div 6) = 5 + 2 = 7$$

$$56 \div 7 = (28 \div 7) + (28 \div 7) = 4 + 4 = 8$$

$$45 \div 5 = (15 \div 5) + (30 \div 5) = 3 + 6 = 9$$

$$48 \div 8 = (16 \div 8) + (32 \div 8) = 2 + 4 = 6$$

$$24 \div 2 = (14 \div 2) + (10 \div 2) = 7 + 5 = 12$$

Name: _____ Period: _____ Date: _____

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