

Foundational Multiplication Facts

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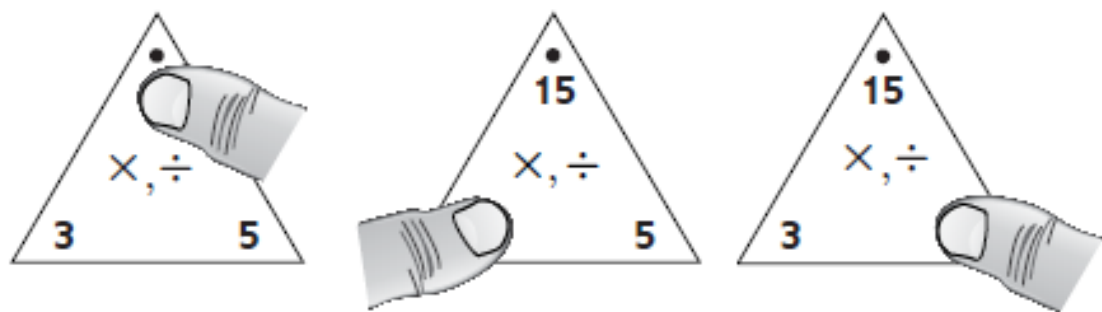
TIME _____

Family Note Today your child worked on developing strategies for solving 2s, 5s, and 10s multiplication facts. These facts will be used later to help solve related multiplication facts. **Fact Triangles** are the *Everyday Mathematics* version of traditional flash cards. They are better tools for building fact fluency and mental-math reflexes, however, because they emphasize fact families.

A **fact family** is a group of facts made from the same three numbers. For 6, 5, and 30, the multiplication and division fact family is $5 \times 6 = 30$, $6 \times 5 = 30$, $30 \div 6 = 5$, $30 \div 5 = 6$.

Fact Triangles arrange the three numbers such that the product is below the dot at the top and the factors are in the other two corners.

Use Fact Triangles to practice basic facts with your child. Cut out the triangles from the three attached sheets. Cover either the number below the large dot (the product) or one of the numbers in a corner (a factor).



Your child may mentally solve any of the following number sentences to find the product, 15.

$$3 \times 5 = ?$$

$$5 \times 3 = ?$$

$$? \div 3 = 5$$

$$? \div 5 = 3$$

Find the factor, 3.

$$15 \div 5 = ?$$

$$15 \div ? = 5$$

$$5 \times ? = 15$$

$$? \times 5 = 15$$

Find the factor, 5.

$$15 \div 3 = ?$$

$$15 \div ? = 3$$

$$3 \times ? = 15$$

$$? \times 3 = 15$$

If your child misses a fact, flash the other two problems and then return to the fact that was missed.

Example: Ravi can't answer $15 \div 3$. Flash 3×5 , and then $15 \div 5$, and finally $15 \div 3$ a second time.

Make this activity brief and fun. Spend about 10 minutes each night for the next few weeks, or until your child learns them all. The work you do at home will support the work we are doing at school.

Please return the **second page** of this Home Link to school tomorrow.

Foundational Multiplication Facts (continued)

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Tell someone at home about multiplication/division fact families.

- ① The numbers 2, 5, and 10 form the following facts:

$$2 \times 5 = \underline{\quad\quad} \quad \underline{\quad\quad} \div 2 = 5$$

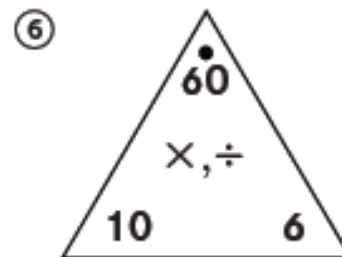
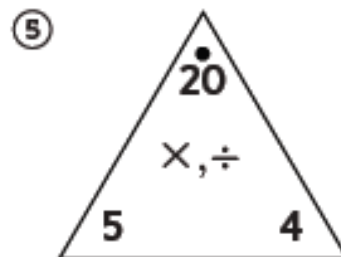
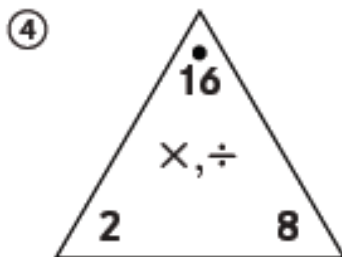
$$5 \times 2 = \underline{\quad\quad} \quad \underline{\quad\quad} \div 5 = 2$$

- ② Knowing $6 \times 2 = \underline{\quad\quad}$ and $2 \times 6 = \underline{\quad\quad}$

helps me know $\underline{\quad\quad} \div 2 = 6$ and $\underline{\quad\quad} \div 6 = 2$.

- ③ The numbers 2, 7, and 14 form this multiplication/division fact family:

Write the fact family for each \times, \div Fact Triangle.



×, ÷ Fact Triangles 1: 2s, 5s, and 10s

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Scissors icon at top left corner.

Fact triangles (clockwise from top-left):

- Triangle 1: 2 (left), 4 (top), 8 (right), \times, \div (center)
- Triangle 2: 4 (top), 6 (center), 8 (right), \times, \div (center)
- Triangle 3: 6 (center), 2 (right), 3 (bottom), \times, \div (center)
- Triangle 4: 2 (right), 2 (bottom), 3 (bottom), \times, \div (center)
- Triangle 5: 2 (right), 9 (center), 2 (bottom), \times, \div (center)
- Triangle 6: 9 (center), 2 (bottom), 5 (right), \times, \div (center)
- Triangle 7: 2 (bottom), 2 (bottom), 5 (right), \times, \div (center)
- Triangle 8: 2 (bottom), 12 (center), 15 (right), \times, \div (center)
- Triangle 9: 2 (bottom), 10 (center), 15 (right), \times, \div (center)
- Triangle 10: 10 (center), 16 (center), 18 (right), \times, \div (center)
- Triangle 11: 16 (center), 14 (center), 18 (right), \times, \div (center)
- Triangle 12: 14 (center), 8 (bottom), 2 (bottom), \times, \div (center)
- Triangle 13: 8 (bottom), 2 (bottom), 7 (bottom), \times, \div (center)
- Triangle 14: 2 (bottom), 2 (bottom), 9 (right), \times, \div (center)
- Triangle 15: 2 (bottom), 7 (bottom), 3 (right), \times, \div (center)

×, ÷ Fact Triangles 2: 2s, 5s, and 10s

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Triangle 1 (top left): 5, 20, 4

Triangle 2 (top middle): 40, 5

Triangle 3 (top right): 35, 7, 5

Triangle 4 (middle left): 4, 5, 2

Triangle 5 (middle right): 8, 10, 3

Triangle 6 (bottom left): 5, 9, 45, 25, 30

Triangle 7 (bottom middle): 30, 40, 6

Triangle 8 (bottom right): 10, 4, 10

Other triangles contain multiplication (×) and division (÷) symbols.

\times, \div Fact Triangles 3: 2s, 5s, and 10s

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