

3rd MULTIPLICATION & DIVISION

Concepts & Models

The image is a collage of several math worksheets. At the top left, a page titled 'MULTIPLY NUMBER' shows a number line from 0 to 15. Below it, a 'DIVISION STRIP' is partially visible. To the right, a page titled 'REPRESENTATION' has a section for 'Repeated Subtraction' with the equation $21 \div 3 = \underline{\quad}$ and a section for 'Array' with the equation $21 \div 3 = \underline{\quad}$. Further right, a page titled 'MULTIPLICATION FAST FACT PRACTICE' asks to 'Solve each problem below.' and lists four problems: $1. 5 \times 4 = \underline{\quad}$, $2. 4 \times 7 = \underline{\quad}$, $3. 6 \times 10 = \underline{\quad}$, and $4. 3 \times 9 = \underline{\quad}$. Below this, a 'MIXED WORD PROBLEMS' page contains two problems: 1. Birdie grew 7 rows of flowers in her garden. Each row contained 10 flowers. How many flowers did Birdie grow? Draw a model to represent your thinking and solve. 2. Michael made 72 brownies. He split the brownies onto 6 trays. How many brownies will Michael put on each tray? Draw a model to represent your thinking and solve. In the bottom center, a page titled 'MULTIPLICATION EQUAL GROUP' shows two problems: 1. A model of 8 groups of 4 dots each, with the equation $\underline{\quad} \times \underline{\quad} = \underline{\quad}$. 2. A model of 3 groups of 6 dots each, with the equation $\underline{\quad} \times \underline{\quad} = \underline{\quad}$. At the bottom right, another 'MULTIPLICATION EQUAL GROUP' page shows two problems: 3. Trevin earned \$30 mowing his neighbor's lawn. He wants to split that money up evenly and put it into three different accounts. How much money will Trevin put in each account? Draw a model to represent your thinking and solve. 4. Hank earned \$6 an hour at the store. How much money will Hank earn if he works 6 hours on Saturday? Draw a model to represent your thinking and solve. A large, bold, black arrow pointing to the right is at the bottom, containing the text '•SKILL PAGES'.

Name: _____

Solve each problem
below.

MULTIPLICATION FAST FACT PRACTICE

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1. $5 \times 4 =$ _____ 2. $4 \times 7 =$ _____ 3. $6 \times 10 =$ _____ 4. $3 \times 9 =$ _____

5. $2 \times 1 =$ _____ 6. $11 \times 5 =$ _____ 7. $1 \times 8 =$ _____ 8. $0 \times 7 =$ _____

9. $10 \times 11 =$ _____ 10. $8 \times 2 =$ _____ 11. $7 \times 6 =$ _____ 12. $12 \times 3 =$ _____

13. $4 \times 6 =$ _____ 14. $12 \times 12 =$ _____ 15. $1 \times 5 =$ _____ 16. $3 \times 7 =$ _____

17. $0 \times 2 =$ _____ 18. $11 \times 3 =$ _____ 19. $8 \times 4 =$ _____ 20. $2 \times 6 =$ _____

21. $6 \times 11 =$ _____ 22. $5 \times 8 =$ _____ 23. $10 \times 10 =$ _____ 24. $9 \times 5 =$ _____

25. $12 \times 11 =$ _____ 26. $5 \times 6 =$ _____ 27. $9 \times 8 =$ _____ 28. $3 \times 4 =$ _____

Name: _____

Solve each problem
below.

DiViSiON

fAST fACT PRACtice

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1. $18 \div 3 =$ _____ 2. $30 \div 6 =$ _____ 3. $50 \div 10 =$ _____ 4. $8 \div 2 =$ _____

5. $44 \div 11 =$ _____ 6. $36 \div 9 =$ _____ 7. $49 \div 7 =$ _____ 8. $16 \div 4 =$ _____

9. $32 \div 8 =$ _____ 10. $60 \div 12 =$ _____ 11. $25 \div 5 =$ _____ 12. $5 \div 1 =$ _____

13. $9 \div 1 =$ _____ 14. $20 \div 4 =$ _____ 15. $14 \div 7 =$ _____ 16. $48 \div 12 =$ _____

17. $27 \div 9 =$ _____ 18. $12 \div 2 =$ _____ 19. $15 \div 5 =$ _____ 20. $48 \div 8 =$ _____

21. $77 \div 11 =$ _____ 22. $110 \div 10 =$ _____ 23. $30 \div 3 =$ _____ 24. $42 \div 6 =$ _____

25. $54 \div 6 =$ _____ 26. $84 \div 7 =$
_____ 27. $36 \div 3 =$ _____ 28. $132 \div 12 =$ _____

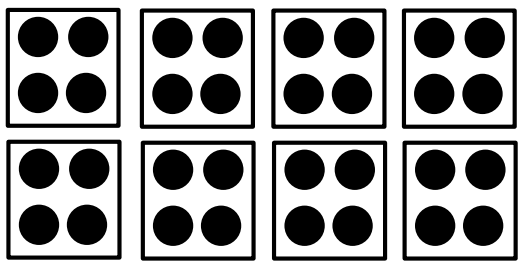
Name: _____

MULTIPLICATION EQUAL GROUPS

Examine each model and
write the equation.

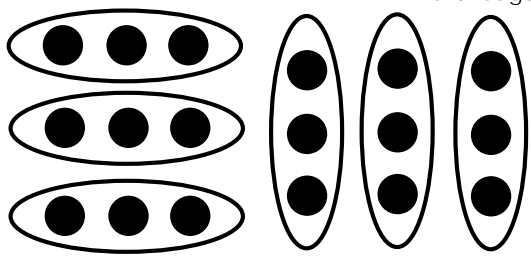
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1.



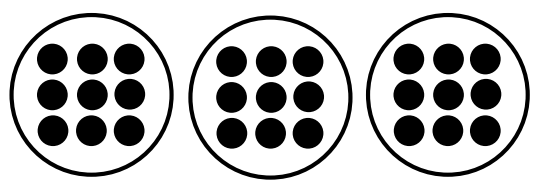
Equation : _____

2.



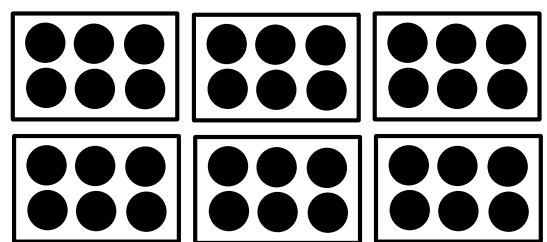
Equation : _____

3.



Equation : _____

4.



Equation : _____

Examine each equation and model with equal groups.

5. $5 \times 8 =$ _____

6. $4 \times 6 =$ _____

7. $2 \times 12 =$ _____

8. $9 \times 3 =$ _____

Name: _____

Examine each addition sentence and write the equation.

MULTIPLICATION

Repeated Addition

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1. $6 + 6 + 6 + 6 + 6 + 6 + 6 =$ _____

Equation : _____

2. $2 + 2 + 2 + 2 + 2 + 2 =$ _____

Equation : _____

3. $5 + 5 + 5 =$ _____

Equation : _____

4. $12 + 12 + 12 + 12 + 12 =$ _____

Equation : _____

Examine each equation and model with repeated addition.

5. $3 \times 9 =$ _____

6. $4 \times 7 =$ _____

7. $6 \times 12 =$ _____

8. $5 \times 11 =$ _____

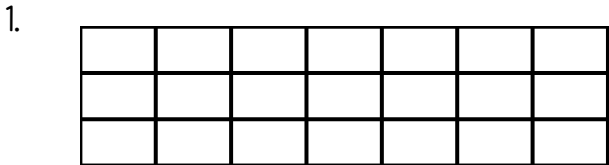
Name: _____

MULTIPLICATION

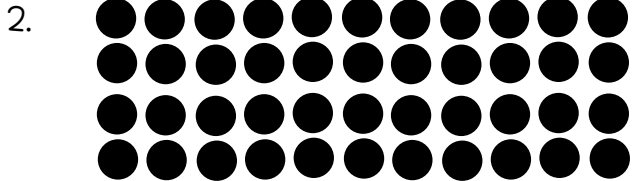
ARRAYS & AREA MODELS

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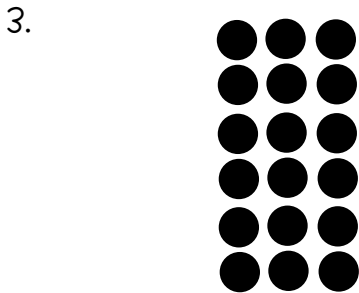
Examine each array or area model and write the equation.



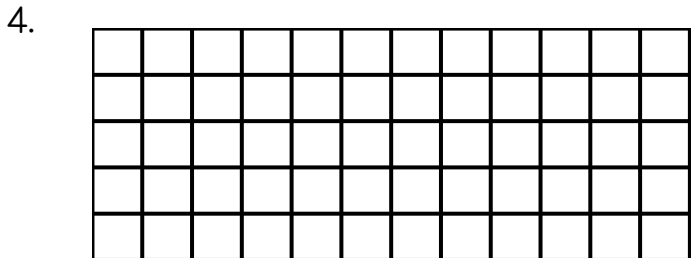
Equation : _____



Equation : _____



Equation : _____



Equation : _____

Examine each equation and model with an array or area model.

5. $2 \times 8 =$ _____

6. $5 \times 11 =$ _____

7. $7 \times 10 =$ _____

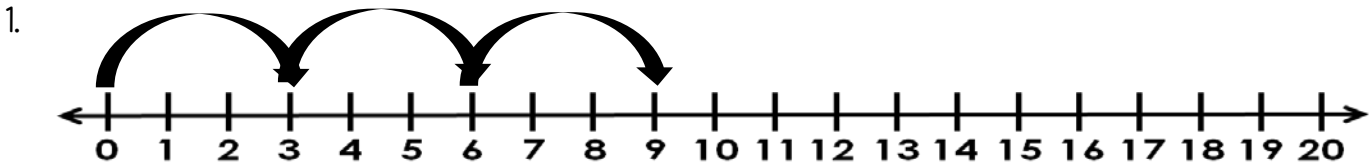
8. $4 \times 12 =$ _____

Name: _____

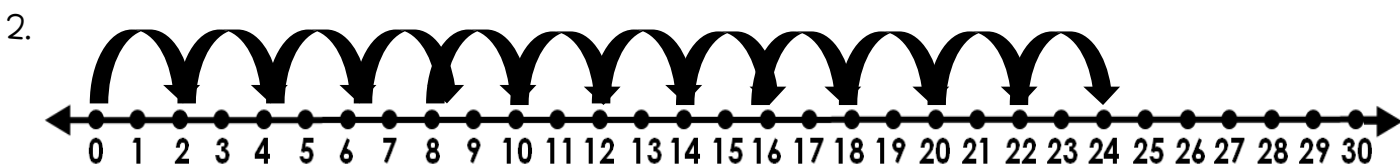
MULTIPLICATION NUMBER LINES

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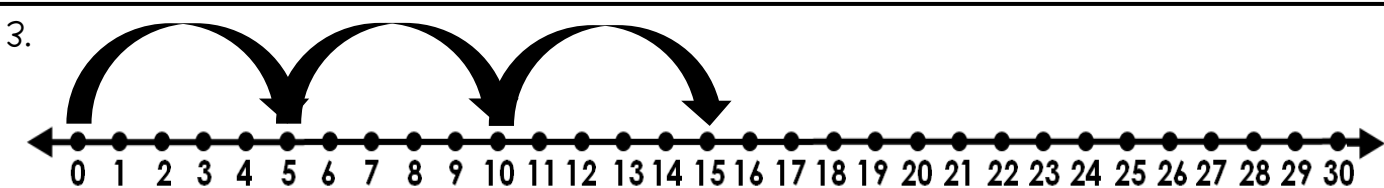
Examine each array or area model and write the equation.



Equation : _____



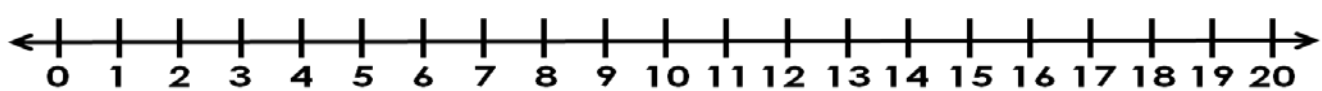
Equation : _____



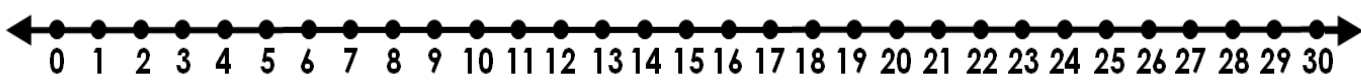
Equation : _____

Examine each equation and model with a number line.

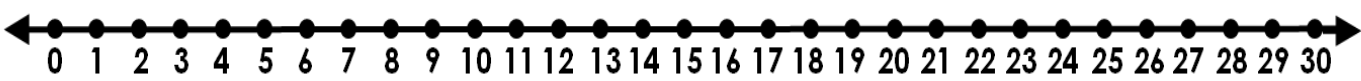
4. $7 \times 2 =$ _____



5. $9 \times 1 =$ _____



6. $6 \times 5 =$ _____

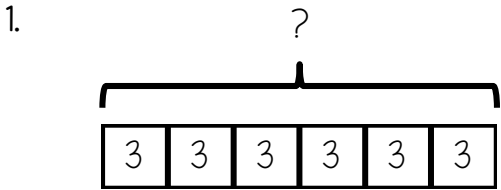


Name: _____

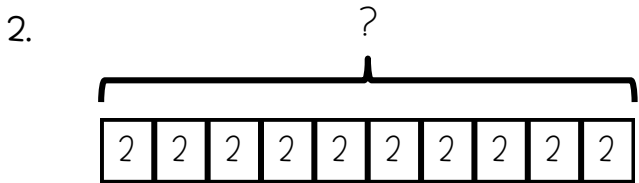
Examine each strip diagram, write the equation, and solve.

MULTIPLICATION STRIP diagrams

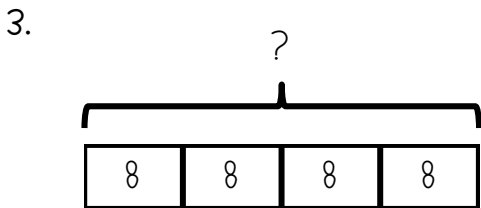
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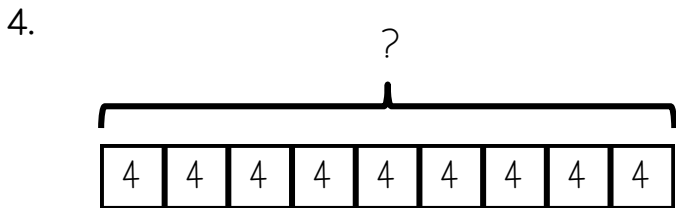
Equation: _____



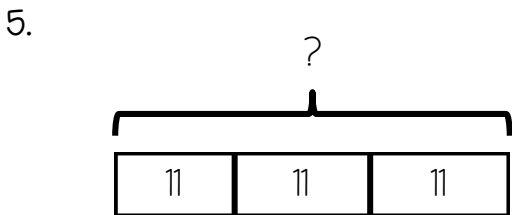
Equation: _____



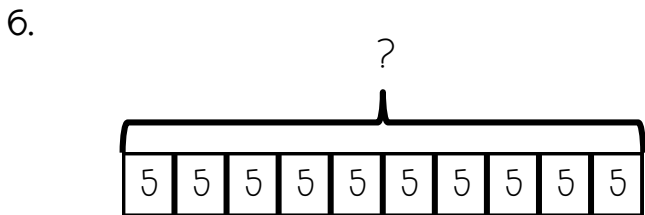
Equation: _____



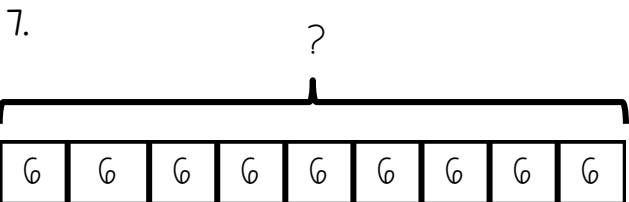
Equation: _____



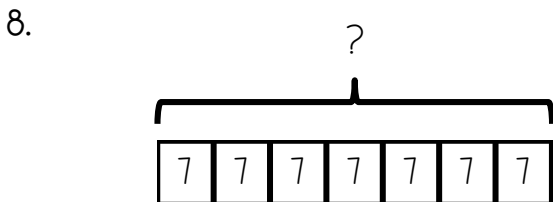
Equation: _____



Equation: _____



Equation: _____



Equation: _____

Name: _____

Examine each equation and draw a strip diagram to model, then solve.

MULTIPLICATION STRIP DIAGRAMS

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1. $3 \times 2 =$ _____

2. $6 \times 8 =$ _____

3. $2 \times 12 =$ _____

4. $5 \times 11 =$ _____

5. $7 \times 2 =$ _____

6. $8 \times 10 =$ _____

7. $5 \times 6 =$ _____

8. $4 \times 9 =$ _____

Name: _____

Examine each multiplication equation and model the equation with each type of representation.

REPRESENTING MULTIPLICATION

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Repeated Addition		Equal Groups
$5 \times 6 = \underline{\hspace{2cm}}$		
Array		Strip Diagram

Equal Groups		Number Line
$5 \times 3 = \underline{\hspace{2cm}}$		
Strip Diagram		Repeated Addition

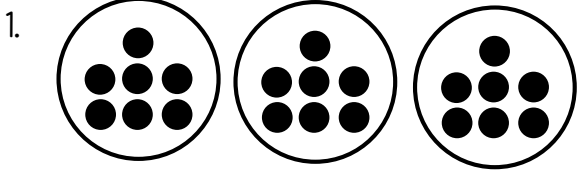
Repeated Addition		Array
$9 \times 5 = \underline{\hspace{2cm}}$		
Equal Groups		Strip Diagram

Name: _____

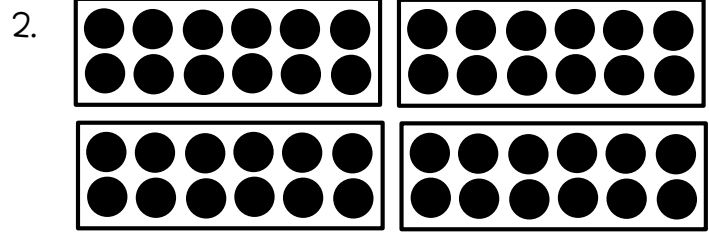
Examine each model and write the equation.

Division equal groups

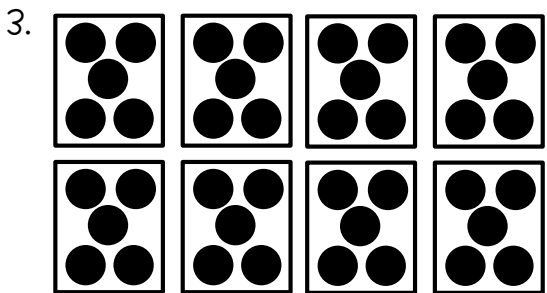
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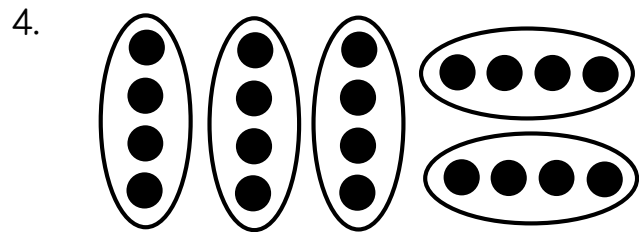
Equation : _____



Equation : _____



Equation : _____



Equation : _____

Examine each equation and model with equal groups.

5. $32 \div 8 =$ _____

6. $50 \div 10 =$ _____

7. $16 \div 4 =$ _____

8. $7 \div 1 =$ _____

Name: _____

Examine each subtraction sentence and write the equation.

1. $27 - 9 - 9 - 9 =$ _____

Equation : _____

3. $12 - 3 - 3 - 3 - 3 =$ _____

Equation : _____

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2. $10 - 2 - 2 - 2 - 2 - 2 - 2 =$ _____

Equation : _____

4. $40 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 =$ _____

Equation : _____

Examine each equation and model with repeated subtraction.

5. $45 \div 9 =$ _____

6. $66 \div 11 =$ _____

7. $12 \div 6 =$ _____

8. $9 \div 3 =$ _____

Name: _____

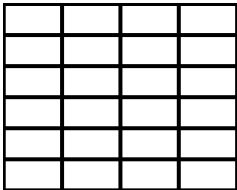
DiViSiON

ARRAYS & AREA Models

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Examine each array or area model and write the equation.

1.



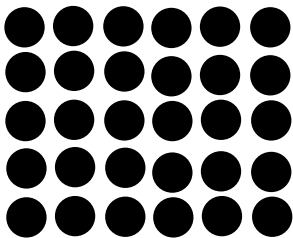
Equation : _____

2.



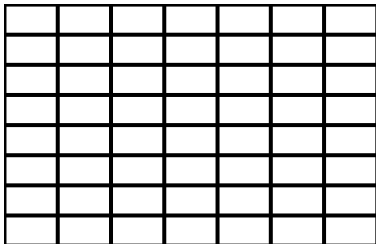
Equation : _____

3.



Equation : _____

4.



Equation : _____

Examine each equation and model with an array or area model.

5. $14 \div 7 =$ _____

6. $6 \div 1 =$ _____

7. $72 \div 12 =$ _____

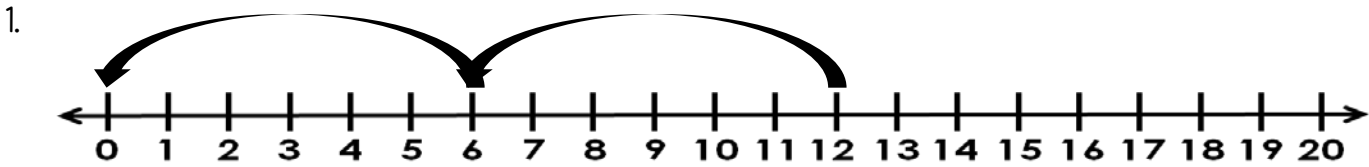
8. $30 \div 5 =$ _____

Name: _____

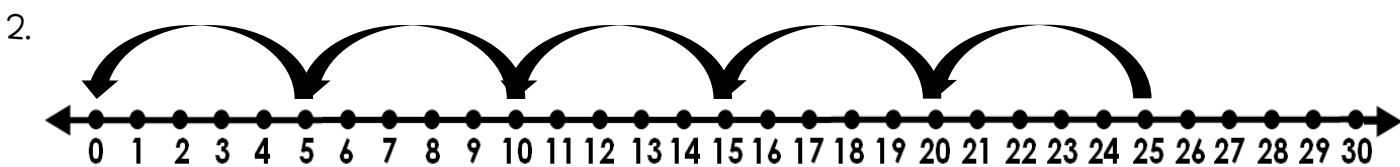
Division Number Lines

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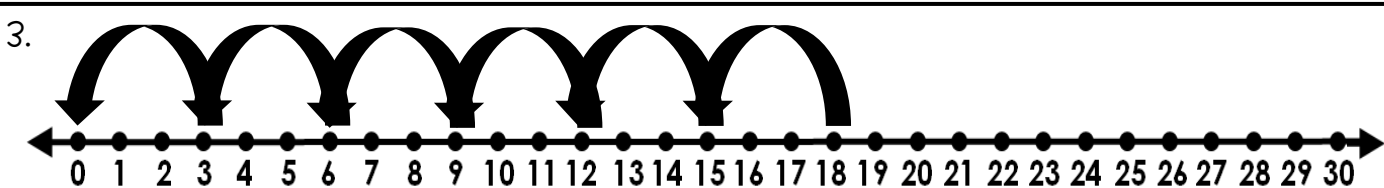
Examine each array or area model and write the equation.



Equation : _____



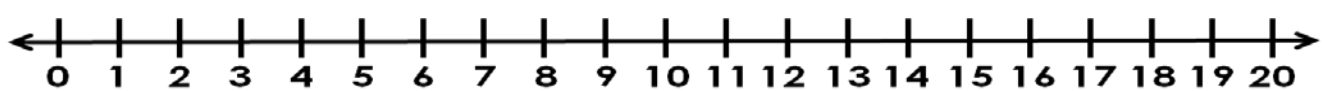
Equation : _____



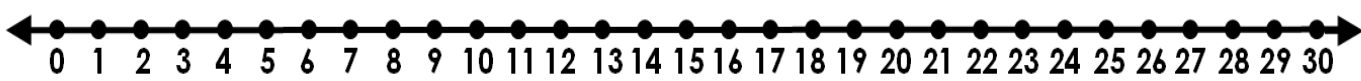
Equation : _____

Examine each equation and model with a number line.

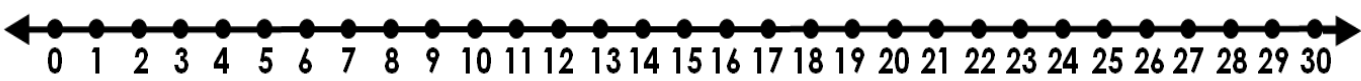
4. $15 \div 5 =$ _____



5. $28 \div 4 =$ _____



6. $24 \div 6 =$ _____



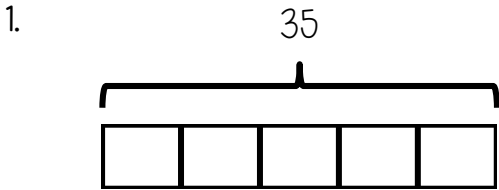
Name: _____

Examine each strip diagram,
write the equation, and
solve.

DiViSiON

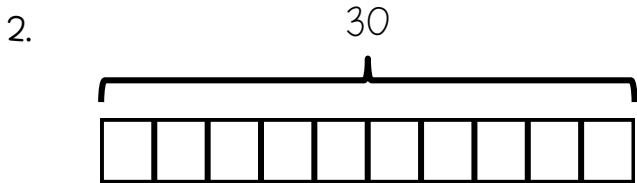
STriP diAGRAMS

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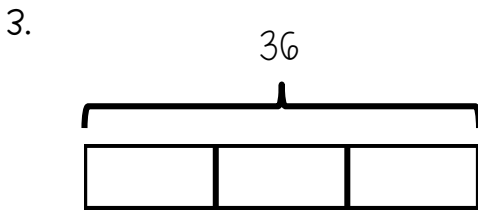
Equation: _____

Answer: _____



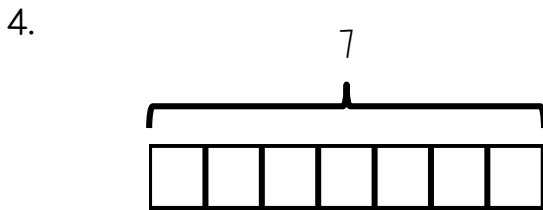
Equation: _____

Answer: _____



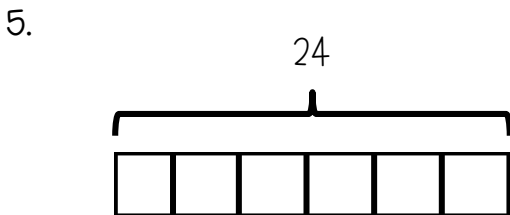
Equation: _____

Answer: _____



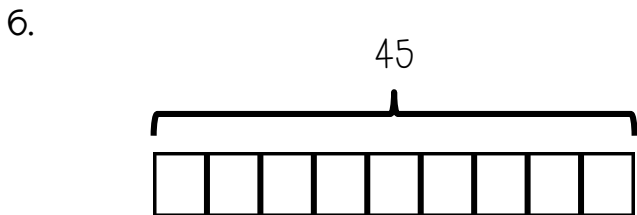
Equation: _____

Answer: _____



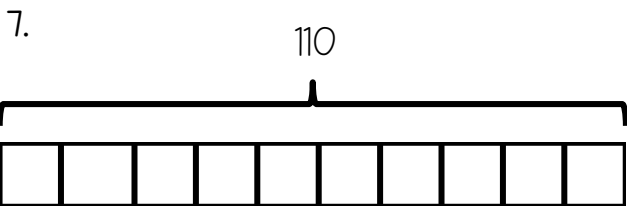
Equation: _____

Answer: _____



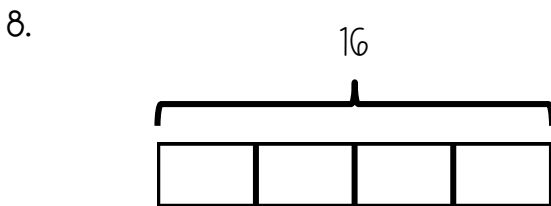
Equation: _____

Answer: _____



Equation: _____

Answer: _____



Equation: _____

Answer: _____

Name: _____

Examine each equation and draw a strip diagram to model, then solve.

DIVISION STRIP DIAGRAMS

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1. $12 \div 4 =$ _____

2. $18 \div 2 =$ _____

3. $36 \div 6 =$ _____

4. $64 \div 8 =$ _____

5. $81 \div 9 =$ _____

6. $60 \div 5 =$ _____

7. $63 \div 7 =$ _____

8. $132 \div 12 =$ _____

Name: _____

Examine each equation and write the other equations in the fact family.

FACT FAMILY EQUATIONS

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1.

$32 \div 8 = \underline{\hspace{2cm}}$

2.

$9 \times 4 = \underline{\hspace{2cm}}$

3.

$12 \times 10 = \underline{\hspace{2cm}}$

4.

$50 \div 10 = \underline{\hspace{2cm}}$

5.

$72 \div 6 = \underline{\hspace{2cm}}$

6.

$6 \times 7 = \underline{\hspace{2cm}}$

7.

$9 \times 2 = \underline{\hspace{2cm}}$

8.

$48 \div 4 = \underline{\hspace{2cm}}$

Name: _____

Examine each multiplication equation and model the equation with each type of representation.

REPRESENTING division

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Repeated Subtraction		Fact Family
$21 \div 3 = \underline{\hspace{2cm}}$		
Array		Strip Diagram

Number Line		Array
$16 \div 4 = \underline{\hspace{2cm}}$		
Strip Diagram		Equal Groups

Equal Groups		Array
$25 \div 5 = \underline{\hspace{2cm}}$		
Fact Family		Strip Diagram

Name: _____

MULTIPLICATION WORD PROBLEMS

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Read each problem, draw a strip diagram, and solve.

1. Honey has 4 boxes of clothes. Each box contains 12 pieces of clothing. How many pieces of clothing does Honey have in all? Draw a strip diagram and solve for the answer.

2. Derek went to the store and purchased 8 packs of potatoes. Each pack contained 8 potatoes. How many potatoes did Derek purchase? Draw a strip diagram and solve for the answer.

3. Lincoln raked up 7 bags of leaves. Each bag weighed 3 pounds. What is the total weight of all the bags? Draw a strip diagram and solve for the answer.

4. Heidi cleaned up all her toys and put them in 6 boxes. If each box contains 11 toys, what is the total number of toys that Heidi cleaned up? Draw a strip diagram and solve for the answer.

5. Sofia baked 12 batches of cookies. Each batch contained 8 cookies. How many cookies did Sofia bake? Draw a strip diagram and solve for the answer.

6. Jack ran 5 miles each day for 9 days. How many miles did Jack run in all? Draw a strip diagram and solve for the answer.

Name: _____

Read each problem, draw a strip diagram, and solve.

DiViSiON

WoRd PRoBlEmS

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1. Toby had 16 pieces of gum. He split the gum into two equal stacks. How many pieces of gum does Toby have in each stack? Draw a strip diagram and solve for the answer.

2. Hayleigh has 24 bows. She wants to divide the bows between her and three friends. How many bows will each person receive? Draw a strip diagram and solve for the answer.

3. Andrew earned \$30 last weekend. He wants to put the money into three different bank accounts. If Andrew splits the money up evenly, how much money will go in each account? Draw a strip diagram and solve for the answer.

4. Patti grew 54 carrots in her backyard. She wants to put 6 carrots in each bag. How many bags will Patti need for her carrots? Draw a strip diagram and solve for the answer.

5. Lisa had 110 crayons. She wants to split the crayons evenly into 10 boxes. How many crayons will go in each box? Draw a strip diagram and solve for the answer.

6. Johnson purchased 14 toy cars. He need to put the cars into two boxes. How many cars will go in each box? Draw a strip diagram and solve for the answer.

Name: _____

Mixed Up
Word Problems

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Examine each problem and solve by drawing a representation model.

1. Birdie grew 7 rows of flowers in her garden. Each row contained 10 flowers. How many flowers did Birdie grow? Draw a model to represent your thinking and solve.

2. Michael made 72 brownies. He needs to split the brownies onto 6 trays. How many brownies will Michael put on each tray? Draw a model to represent your thinking and solve.

3. Trevin earned \$36 mowing his neighbor's lawn. He wants to split that money up evenly and put into three different accounts. How much money will Trevin put in each account? Draw a model to represent your thinking and solve.

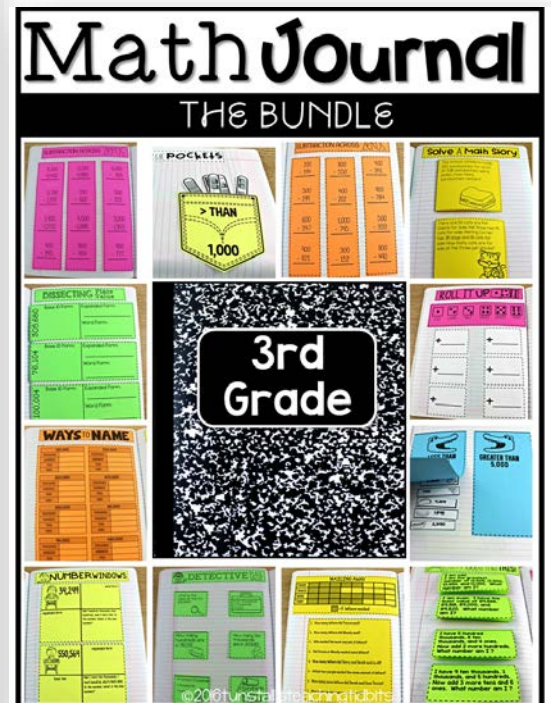
4. Hank earned \$8 an hour at the pool. How much money will Hank earn if he works for 6 hours on Saturday? Draw a model to represent your thinking and solve.

5. Thomas went shopping for markers and purchased 9 packs of 4 markers. What is the total number of markers that Thomas purchased? Draw a model to represent your thinking and solve.

6. Wendi purchased 18 feet of ribbon at the store. Each box that she makes requires 2 feet of ribbon. How many bows can Wendi make? Draw a model to represent your thinking and solve.

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