## DIVISION

## AS AN UNKNOWN FACTOR

## - - O 3rd Hrade



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elated division facts
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## DIVISION AS AN UNKNOWN FACTOR

 fact familiesDirections: Use fact families to find the unknown numbers in the equations below.


Name:

## DIVISION AS AN

## VISION



DIVISION AS

Directions: For each story prob multiplication fact to help you

1 The Mangino family is marshmallows to roas Mangino family. How
related cursion facts

## DIVISION AS AN UNKNOWN F

Directions For each multiplication equation below, write a related division far

$3 \times 4=12$
$12 \div 4=3$
(2) $8 \times 6=48$
$48 \div 8=6$
$48 \div 6=8$
(4) $7 \times 7=49$
$49-7=7$
$90 \div 10=9$
$90 \div 10=9$
(5) $3 \times 2=6$
$6 \div 3=2$
$6-2=3$
(7) $1 \times 5=5$
(8) $11 \times 10=110$
$110 \div 11=10$
$110 \div 11=10$

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$\qquad$
DIVISION
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Directions: Cut out the sh bun), a related multiplicat OS

DIVISION AS.
relay
$\begin{array}{lllll}0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0\end{array}$ $60 \div 6=$ ?

5
2
$9 \times ?=$
(5) $3 \times 2=6$
$6 \div 3=2$
$6-2=3$
(7) $I \times 5=5$

$$
5 \div 1=5
$$

$$
5 \div 5=1
$$



Name: $\qquad$
DIVISION AS, st s
Directions: For each story problem $b$. multiplication fact to help you solve.


2 It is picture day at Memorial Element: photos in total. He took one photo of $\epsilon$ If each class is the same size, how $m$


## AS AN UNKNOWN FACTOR

## $3^{\text {rd }}$ grade

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Name: Date: $\qquad$

## DIVISION AS AN UNKNOWN FACTOR fact families

Directions: Use fact families to find the unknown numbers in the equations below.


Name: $\qquad$ Date: $\qquad$

## DIVISION AS AN UNKNOWN FACTOR

## Related division facts

Directions: For each multiplication equation below, write a related division fact.

$$
3 \times 4=12
$$

$$
\begin{aligned}
& 12 \div 3=4 \\
& 12 \div 4=3
\end{aligned}
$$

## $1 \quad 4 \times 5=20$

(3) $9 \times 10=90$
4) $7 \times 7=49$

- $5 \quad 3 \times 2=6$

2) $8 \times 6=48$
( $12 \times 6=72$
( $1 \times 5=5$
8 II $\times 10=110$
$\qquad$ Date: $\qquad$

## DIVISION AS AN UNKNOWN FACTOR

## Story problems

Directions: For each story problem below, write a division equation. Then, write a related multiplication fact to help you solve.

1 The Mangino family is going camping. They have a bag of 32 marshmallows to roast on the campfire, and there are 4 people in the Mangino family. How many marshmallows will each person get?


Division
Equation

Related
Multiplication Fact

## Answer

2 It is picture day at Memorial Elementary. The photographer took 60 photos in total. He took one photo of each student in 5 different classes. If each class is the same size, how many students are in each class?


Division
Equation

Related
Multiplication
Fact

DIVISION AS AN UNKNOWN FACTOR memory

Directions: Cut out and shuffle the cards. Place them face down in neat rows. Flip over any two cards, trying to create a match between a division equation and a related multiplication fact. If you get a pair, keep the matching cards. If you do not get a pair, flip the cards back over. Play one of three ways:

Independently: Time yourself. How quickly you can find all the matches?
Collaboratively: Work cooperatively with a partner to see how quickly you can find all the matches together.
Competitively: Take turns with a partner, flipping over two cards per turn. Who can get more matches?


Name: $\qquad$ Date: $\qquad$

## DIVISION AS AN UNKNOWN FACTOR

## Money in the bank

Directions: Draw a line between the division equation on each coin with a related multiplication fact on the dollar bill. Then, draw a line to the piggy bank with the missing number.


Name: $\qquad$ Date: $\qquad$

## DIVISION AS AN UNKNOWN FACTOR Hamburger heaven

Directions: Cut out the shapes below. Create a hamburger by combining a division equation (top bun), a related multiplication fact (bottom bun), and the corresponding unknown number (patty).

$\qquad$

# DIVISION AS AN UNKNOWN FACTOR Mystery shape 

Directions: For each division equation, use a related multiplication fact to find the unknown number. Then, on the grid, shade all squares with that number. What is the mystery shape?
(4) $14 \div 2=$
5. $28 \div 7=$
6. $99 \div 9=$

| 2 | 1 | 2 | 10 | 1 | 3 | 0 | 12 | 3 | 1 | 3 | 3 | 12 | 0 | 2 | 9 | 2 | 10 | 0 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 9 | 3 | 10 | 9 | 12 | 9 | 12 | 3 | 10 | 12 | 0 | 3 | 1 | 10 | 9 | 3 | 1 | 3 | 1 |
| 3 | 12 | 9 | 1 | 8 | 7 | 12 | 3 | 0 | 12 | 3 | 9 | 12 | 12 | 5 | 8 | 12 | 3 | 12 | 3 |
| 12 | 3 | 10 | 5 | 7 | 5 | 4 | 9 | 10 | 3 | 1 | 10 | 3 | 8 | 4 | 7 | 5 | 9 | 2 | 9 |
| 9 | 12 | 12 | 4 | 11 | 8 | 6 | 11 | 1 | 9 | 0 | 2 | 7 | 6 | 8 | 11 | 4 | 3 | 9 | 3 |
| 12 | 3 | 6 | 5 | 7 | 11 | 8 | 7 | 5 | 3 | 2 | 8 | 11 | 5 | 4 | 8 | 7 | 8 | 10 | 3 |
| 10 | 7 | 11 | 7 | 4 | 8 | 6 | 11 | 8 | 7 | 5 | 11 | 6 | 5 | 4 | 4 | 7 | 4 | 11 | 1 |
| 3 | 11 | 7 | 6 | 11 | 6 | 11 | 5 | 4 | 8 | 7 | 8 | 11 | 5 | 7 | 11 | 8 | 7 | 5 | 2 |
| 12 | 4 | 5 | 11 | 5 | 4 | 8 | 11 | 6 | 5 | 11 | 6 | 5 | 4 | 6 | 7 | 11 | 6 | 6 | 12 |
| 2 | 7 | 11 | 8 | 11 | 8 | 11 | 5 | 4 | 11 | 8 | 4 | 11 | 8 | 11 | 8 | 5 | 5 | 4 | 3 |
| 1 | 10 | 8 | 4 | 5 | 11 | 4 | 11 | 8 | 4 | 6 | 6 | 8 | 11 | 6 | 4 | 6 | 7 | 10 | 2 |
| 3 | 12 | 0 | 6 | 6 | 8 | 6 | 6 | 4 | 5 | 11 | 8 | 11 | 6 | 5 | 7 | 7 | 12 | 3 | 0 |
| 0 | 3 | 12 | 3 | 4 | 11 | 5 | 4 | 6 | 7 | 4 | 11 | 8 | 4 | 11 | 6 | 0 | 2 | 12 | 3 |
| 10 | 12 | 3 | 1 | 0 | 5 | 4 | 6 | 6 | 5 | 5 | 8 | 7 | 4 | 8 | 12 | 12 | 3 | 10 | 12 |
| 1 | 1 | 10 | 12 | 0 | 3 | 6 | 7 | 4 | 4 | 7 | 7 | 6 | 4 | 3 | 9 | 1 | 3 | 12 | 1 |
| 2 | 12 | 3 | 3 | 12 | 2 | 12 | 11 | 6 | 4 | 8 | 11 | 5 | 3 | 12 | 0 | 2 | 0 | 9 | 3 |
| 3 | 3 | 9 | 12 | 9 | 10 | 3 | 10 | 5 | 11 | 7 | 4 | 12 | 2 | 1 | 12 | 3 | 9 | 9 | 1 |
| 3 | 12 | 10 | 3 | 12 | 3 | 9 | 12 | 2 | 8 | 5 | 9 | 12 | 10 | 12 | 3 | 9 | 10 | 3 | 9 |
| 0 | 9 | 2 | 12 | 10 | 0 | 3 | 1 | 10 | 3 | 1 | 9 | 3 | 9 | 3 | 12 | 3 | 12 | 10 | 10 |
| 3 | 10 | 3 | 0 | 9 | 2 | 0 | 3 | 1 | 2 | 3 | 3 | 12 | 0 | 12 | 3 | 9 | 0 | 9 | 3 |

Name:
Date: $\qquad$

## DIVISION AS AN UNKNOWN FACTOR

 testDirections: Complete the fact families.
1


Directions: For each multiplication equation below, write a related division fact.
(3) $6 \times 4=24$
(4) $9 \times 7=63$

5 $5 \times \|=55$
6) $2 \times 10=20$

7 If you know that $312 \div 26=12$, explain how you also know that $26 \times$ $12=312$.

Directions: For each division equation, write a related multiplication fact that will help you solve it. Write the missing quotient.

## 8

$$
16 \div 4=-
$$

## 9 . $49 \div 7=$ <br> $\qquad$

10) $60 \div 5=$ $\qquad$ (11) $40 \div 8=$ $\qquad$

12 18 $\div 6=$ $\qquad$ (13) $54 \div 9=$

14 Kimberly is packing for a trip. She has five suitcases, and they weigh a total of 45 pounds. If each suitcase weighs the same amount, how many pounds does each suitcase weigh?


Division
Equation

## Related

Multiplication
Fact

Answer

15 On Saturday, there was a soccer tournament. There were llO soccer players at the tournament, and each team had II players. How many teams participated in the tournament?

Division
Equation

## Related

Multiplication
Fact

## Answer

Mikhail and Caroline are trying to solve the division equation $21 \div 7$. Mikhail thinks the related multiplication fact is $3 \times 7=21$. Caroline thinks you need to use the multiplication fact $7 \times 3=2$ I. Who is correct? Explain.

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