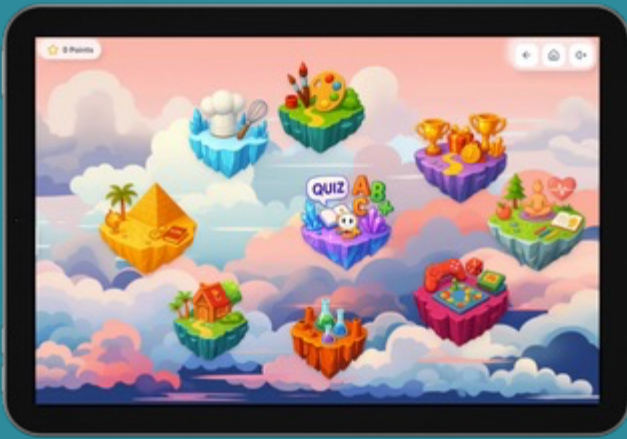


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6 Times Tables - Year 4

Table of Contents
Presentation: 6 Times Tables
Classroom Display: 6 Times Tables
Worksheet 1: 6x Multiplication and Division Mat
Worksheet 2: Sixes Fact Flaps
Worksheet 3: Cracking the Sixes
Worksheet 4: Roll and Solve: Sixes
Worksheet 5: Roll and Solve 6x Challenge
Worksheet 6: Colour by Product 6x
Worksheet 7: 6x Multiplication Chatterbox
Worksheet 8: Sixes Division Fact Flaps
Worksheet 9: Roll and Solve: Divide by 6
Worksheet 10: Colour by Quotient: Divide by 6
Game 1: Spin and Catch 6x
Game 1: Spin and Colour 6x
Game 3: Make Four: 6x
Game 4: Four in a Row 6x
Quiz: 6 Times Tables
Assessment: Super Sizes Quiz



6 Super Sixes x

1 6x Facts

$6 \times 1 = 6$
$6 \times 2 = 12$
$6 \times 3 = 18$
$6 \times 4 = 24$
$6 \times 5 = 30$
$6 \times 6 = 36$
$6 \times 7 = 42$
$6 \times 8 = 48$
$6 \times 9 = 54$
$6 \times 10 = 60$
$6 \times 11 = 66$
$6 \times 12 = 72$



2 Turnarounds



$1 \times 6 = 6$
$2 \times 6 = 12$
$3 \times 6 = 18$
$4 \times 6 = 24$
$5 \times 6 = 30$
$6 \times 6 = 36$
$7 \times 6 = 42$
$8 \times 6 = 48$
$9 \times 6 = 54$
$10 \times 6 = 60$
$11 \times 6 = 66$
$12 \times 6 = 72$

3 Divide by 6



$6 \div 6 = 1$
$12 \div 6 = 2$
$18 \div 6 = 3$
$24 \div 6 = 4$
$30 \div 6 = 5$
$36 \div 6 = 6$
$42 \div 6 = 7$
$48 \div 6 = 8$
$54 \div 6 = 9$
$60 \div 6 = 10$
$66 \div 6 = 11$
$72 \div 6 = 12$



4 Strategies



Double the 3s.



Use 5 times the number, then add one more group.



Turnarounds help.



Fact families connect multiplication and division.



Name: _____

6x Multiplication and Division Mat

Use the fact $6 \times 4 = 24$ to complete each section.

1. Skip count

____, ____, ____, ____, ____, ____

2. Draw arrays

3. Equal groups

4. Write a word problem

5. Number sentence

____ $\times$ ____ = ____

6. Turnaround fact

____ $\times$ ____ = ____

7. Related division facts

____ $\div$ ____ = ____
____ $\div$ ____ = ____

6x Multiplication and Division Mat

Use the fact $6 \times 4 = 24$ to complete each section.

1. Skip count

6, 12, 18, 24

2. Draw arrays,

4 rows of 6 = 24

3. Equal groups

4 groups of 6 = 24

4. Write a word problem

There are 4 bags with 6 counters in each. There are 24 counters altogether.

5. Number sentence

$6 \times 4 = 24$

6. Turnaround fact

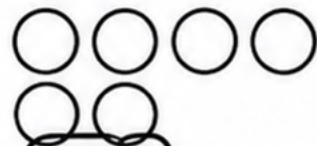
$4 \times 6 = 24$

7. Related division facts

$24 \div 6 = 4$

$24 \div 4 = 6$

Name: _____



Sixes Fact Flaps

Write each product. Fold on the dashed line.
Cut on the dotted lines. Use the flaps to test yourself.



$6 \times 1 = \underline{\hspace{2cm}}$

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

$6 \times 3 = \underline{\hspace{2cm}}$

$6 \times 4 = \underline{\hspace{2cm}}$

$6 \times 5 = \underline{\hspace{2cm}}$

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

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

$6 \times 8 = \underline{\hspace{2cm}}$

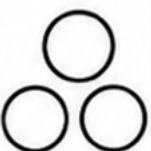
$6 \times 9 = \underline{\hspace{2cm}}$

$6 \times 10 = \underline{\hspace{2cm}}$

$6 \times 11 = \underline{\hspace{2cm}}$

$6 \times 12 = \underline{\hspace{2cm}}$

Preview



Sixes Fact Flaps

Write each product. Fold on the dashed line.
Cut on the dotted lines. Use the flaps to test yourself.

$6 \times 1 = \underline{6}$

$6 \times 2 = \underline{12}$

$6 \times 3 = \underline{18}$

$6 \times 4 = \underline{24}$

$6 \times 5 = \underline{30}$

$6 \times 6 = \underline{36}$

$6 \times 7 = \underline{42}$

$6 \times 8 = \underline{48}$

$6 \times 9 = \underline{54}$

$6 \times 10 = \underline{60}$

$6 \times 11 = \underline{66}$

$6 \times 12 = \underline{72}$

Preview

Name: _____

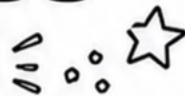


Cracking the Sixes

6x

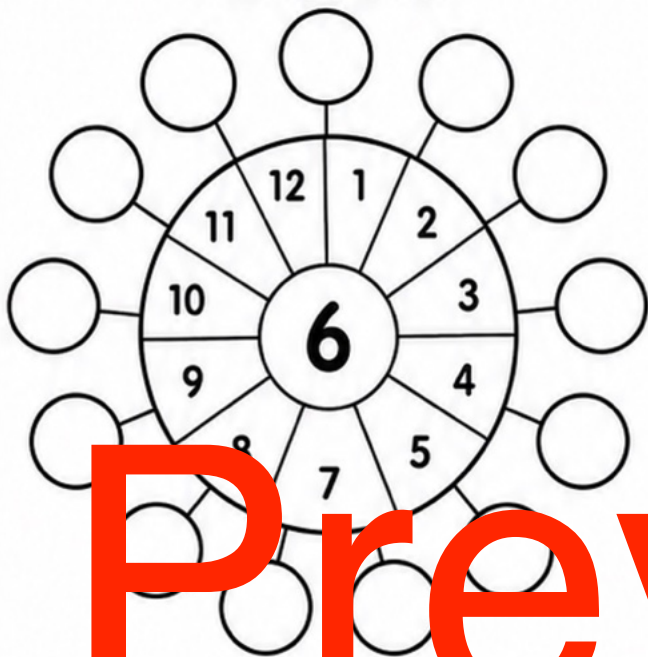


Solve each activity to become a sixes superstar!



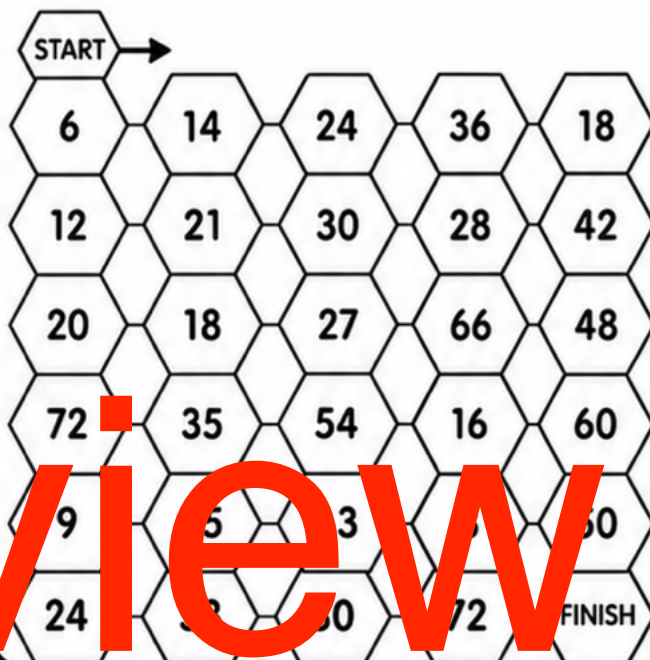
1. Product Wheel

Write the products of 6×1 to 6×12 in the outer circles.



2. Number Path

Find a path from START to FINISH using the correct sixes products. You can move horizontally or diagonally.



3. Roll and Write

Roll a die. Write a multiplication sentence using 6 and the number you rolled. Then write the product in the circle.

①		_____ $\times 6 =$ _____	
②		_____ $\times 6 =$ _____	
③		_____ $\times 6 =$ _____	
④		_____ $\times 6 =$ _____	
⑤		_____ $\times 6 =$ _____	

4. Fact Families

Write the multiplication and division facts for each set of sixes.

6, 2, 12	6, 5, 30	6, 9, 54
_____ $\times$ _____ = _____	_____ $\times$ _____ = _____	_____ $\times$ _____ = _____
_____ $\times$ _____ = _____	_____ $\times$ _____ = _____	_____ $\times$ _____ = _____
_____ $\div$ _____ = _____	_____ $\div$ _____ = _____	_____ $\div$ _____ = _____
_____ $\div$ _____ = _____	_____ $\div$ _____ = _____	_____ $\div$ _____ = _____

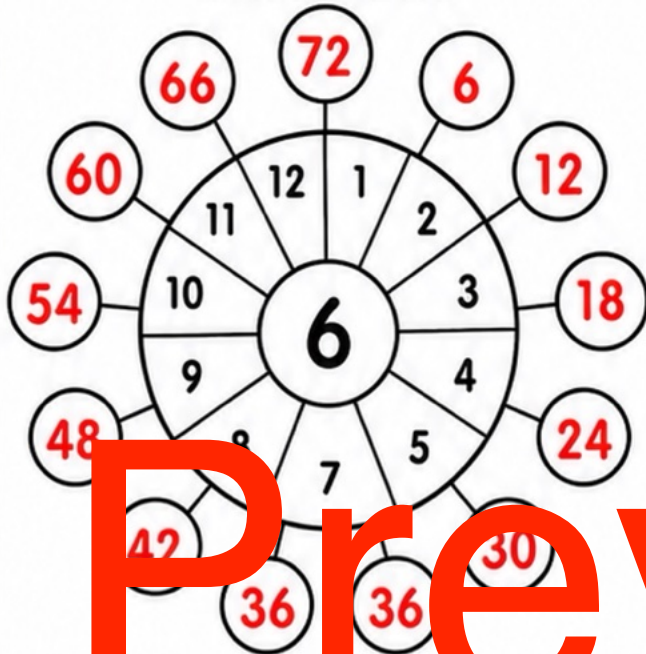


6 Cracking the Sixes

Solve each activity to become a sixes superstar!

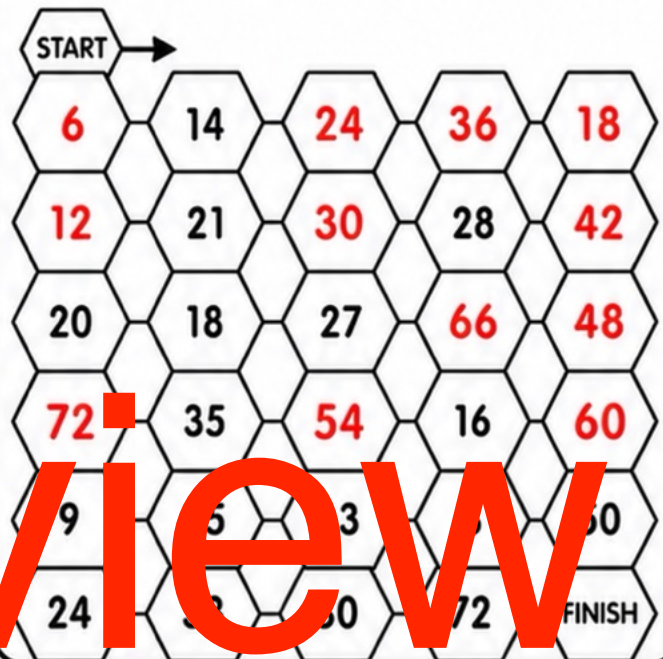
1. Product Wheel

Write the products of 6×1 to 6×12 in the outer circles.



2. Number Path

Find a path from START to FINISH using the correct sixes products. You can move horizontally or diagonally.



3. Roll and Write

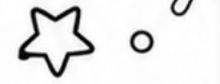
Roll a die. Write a multiplication sentence using 6 and the number you rolled. Then write the product in the circle.

①		<u>1</u> $\times 6 =$ <u>6</u>	<u>6</u>
②		<u>2</u> $\times 6 =$ <u>12</u>	<u>12</u>
③		<u>3</u> $\times 6 =$ <u>18</u>	<u>18</u>
④		<u>4</u> $\times 6 =$ <u>24</u>	<u>24</u>
⑤		<u>5</u> $\times 6 =$ <u>30</u>	<u>30</u>

4. Fact Families

Write the multiplication and division facts for each set of sixes.

6, 2, 12	6, 5, 30	6, 9, 54
$6 \times 2 = 12$	$6 \times 5 = 30$	$6 \times 9 = 54$
$2 \times 6 = 12$	$5 \times 6 = 30$	$9 \times 6 = 54$
$12 \div 6 = 2$	$30 \div 6 = 5$	$54 \div 6 = 9$
$12 \div 2 = 6$	$30 \div 5 = 6$	$54 \div 9 = 6$

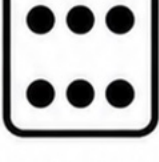


Roll and Solve: Sixes



Name: _____

Roll a die. Find the matching column. Solve the first unanswered fact in that column. Keep playing until you reach the top.

$6 \times 7 = \underline{\quad}$	$6 \times 2 = \underline{\quad}$	$6 \times 10 = \underline{\quad}$	$6 \times 8 = \underline{\quad}$	$6 \times 11 = \underline{\quad}$	$6 \times 1 = \underline{\quad}$
$6 \times 12 = \underline{\quad}$	$6 \times 6 = \underline{\quad}$	$6 \times 3 = \underline{\quad}$	$6 \times 0 = \underline{\quad}$	$6 \times 2 = \underline{\quad}$	$6 \times 4 = \underline{\quad}$
$6 \times 4 = \underline{\quad}$	$6 \times 11 = \underline{\quad}$	$6 \times 9 = \underline{\quad}$	$6 \times 5 = \underline{\quad}$	$6 \times 10 = \underline{\quad}$	$6 \times 8 = \underline{\quad}$
$6 \times 0 = \underline{\quad}$	$6 \times 5 = \underline{\quad}$	$6 \times 12 = \underline{\quad}$	$6 \times 1 = \underline{\quad}$	$6 \times 6 = \underline{\quad}$	$6 \times 0 = \underline{\quad}$
$6 \times 9 = \underline{\quad}$	$6 \times 1 = \underline{\quad}$	$6 \times 2 = \underline{\quad}$	$6 \times 7 = \underline{\quad}$	$6 \times 3 = \underline{\quad}$	$6 \times 5 = \underline{\quad}$
$6 \times 3 = \underline{\quad}$	$6 \times 8 = \underline{\quad}$	$6 \times 6 = \underline{\quad}$	$6 \times 4 = \underline{\quad}$	$6 \times 12 = \underline{\quad}$	$6 \times 9 = \underline{\quad}$
					





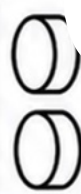
Roll and Solve: Sixes



Name: **Answer Key**

Find the matching column. Solve the first unanswered fact in the column. Keep playing until you reach the top.

$6 \times 7 = \underline{42}$	$6 \times 2 = \underline{12}$	$6 \times 10 = \underline{60}$	$6 \times 8 = \underline{48}$	$6 \times 11 = \underline{66}$	$6 \times 1 = \underline{6}$
$6 \times 12 = \underline{72}$	$6 \times 6 = \underline{36}$	$6 \times 3 = \underline{18}$	$6 \times 0 = \underline{0}$	$6 \times 2 = \underline{12}$	$6 \times 4 = \underline{24}$
$6 \times 4 = \underline{24}$	$6 \times 11 = \underline{66}$	$6 \times 9 = \underline{54}$	$6 \times 5 = \underline{30}$	$6 \times 10 = \underline{60}$	$6 \times 8 = \underline{48}$
$6 \times 0 = \underline{0}$	$6 \times 5 = \underline{30}$	$6 \times 12 = \underline{72}$	$6 \times 1 = \underline{6}$	$6 \times 6 = \underline{36}$	$6 \times 0 = \underline{0}$
$6 \times 9 = \underline{54}$	$6 \times 1 = \underline{6}$	$6 \times 2 = \underline{12}$	$6 \times 7 = \underline{42}$	$6 \times 3 = \underline{18}$	$6 \times 5 = \underline{30}$
$6 \times 3 = \underline{18}$	$6 \times 8 = \underline{48}$	$6 \times 6 = \underline{36}$	$6 \times 4 = \underline{24}$	$6 \times 12 = \underline{72}$	$6 \times 9 = \underline{54}$
					





Roll and Solve 6x Challenge



Name: _____

Roll a die. Find the matching column. Solve the first unanswered fact in that column. Keep playing until every column is complete.

$6 \times 3 =$ _____	$6 \times 6 =$ _____	$6 \times 11 =$ _____	$6 \times 4 =$ _____	$6 \times 5 =$ _____	$6 \times 0 =$ _____
$6 \times 9 =$ _____	$6 \times 10 =$ _____	$6 \times 1 =$ _____	$6 \times 8 =$ _____	$6 \times 11 =$ _____	$6 \times 2 =$ _____
$6 \times \quad =$ _____	$6 \times 4 =$ _____	$6 \times 7 =$ _____	$6 \times 2 =$ _____	$6 \times 6 =$ _____	$6 \times 10 =$ _____
$6 \times 12 =$ _____	$6 \times 2 =$ _____	$6 \times 3 =$ _____	$6 \times 1 =$ _____	$6 \times 9 =$ _____	$6 \times 8 =$ _____
$6 \times 7 =$ _____	$6 \times 8 =$ _____	$6 \times 12 =$ _____	$6 \times 1 =$ _____	$6 \times 3 =$ _____	$6 \times 4 =$ _____
$6 \times 5 =$ _____	$6 \times 12 =$ _____	$6 \times 6 =$ _____	$6 \times 9 =$ _____	$6 \times 12 =$ _____	$6 \times 1 =$ _____
$6 \times 11 =$ _____	$6 \times 9 =$ _____	$6 \times 0 =$ _____	$6 \times 5 =$ _____	$6 \times 7 =$ _____	$6 \times 12 =$ _____
					





Answer Key

Roll and Solve 6x Challenge



Roll a die. Find the matching column. Solve the first unanswered fact in that column. Keep playing until every column is complete.

$6 \times 3 =$ <u>18</u>	$6 \times 6 =$ <u>36</u>	$6 \times 11 =$ <u>66</u>	$6 \times 4 =$ <u>24</u>	$6 \times 5 =$ <u>30</u>	$6 \times 0 =$ <u>0</u>
$6 \times 9 =$ <u>54</u>	$6 \times 10 =$ <u>60</u>	$6 \times 1 =$ <u>6</u>	$6 \times 8 =$ <u>48</u>	$6 \times 11 =$ <u>66</u>	$6 \times 2 =$ <u>12</u>
$6 \times 1 =$ <u>6</u>	$6 \times 4 =$ <u>24</u>	$6 \times 7 =$ <u>42</u>	$6 \times 6 =$ <u>36</u>	$6 \times 10 =$ <u>60</u>	$6 \times 12 =$ <u>72</u>
$6 \times 12 =$ <u>72</u>	$6 \times 2 =$ <u>12</u>	$6 \times 3 =$ <u>18</u>	$6 \times 10 =$ <u>60</u>	$6 \times 9 =$ <u>54</u>	$6 \times 8 =$ <u>48</u>
$6 \times 7 =$ <u>42</u>	$6 \times 8 =$ <u>48</u>	$6 \times 12 =$ <u>72</u>	$6 \times 1 =$ <u>6</u>	$6 \times 3 =$ <u>18</u>	$6 \times 4 =$ <u>24</u>
$6 \times 5 =$ <u>30</u>	$6 \times 12 =$ <u>72</u>	$6 \times 6 =$ <u>36</u>	$6 \times 9 =$ <u>54</u>	$6 \times 12 =$ <u>72</u>	$6 \times 1 =$ <u>6</u>
$6 \times 11 =$ <u>66</u>	$6 \times 9 =$ <u>54</u>	$6 \times 0 =$ <u>0</u>	$6 \times 5 =$ <u>30</u>	$6 \times 7 =$ <u>42</u>	$6 \times 12 =$ <u>72</u>
					



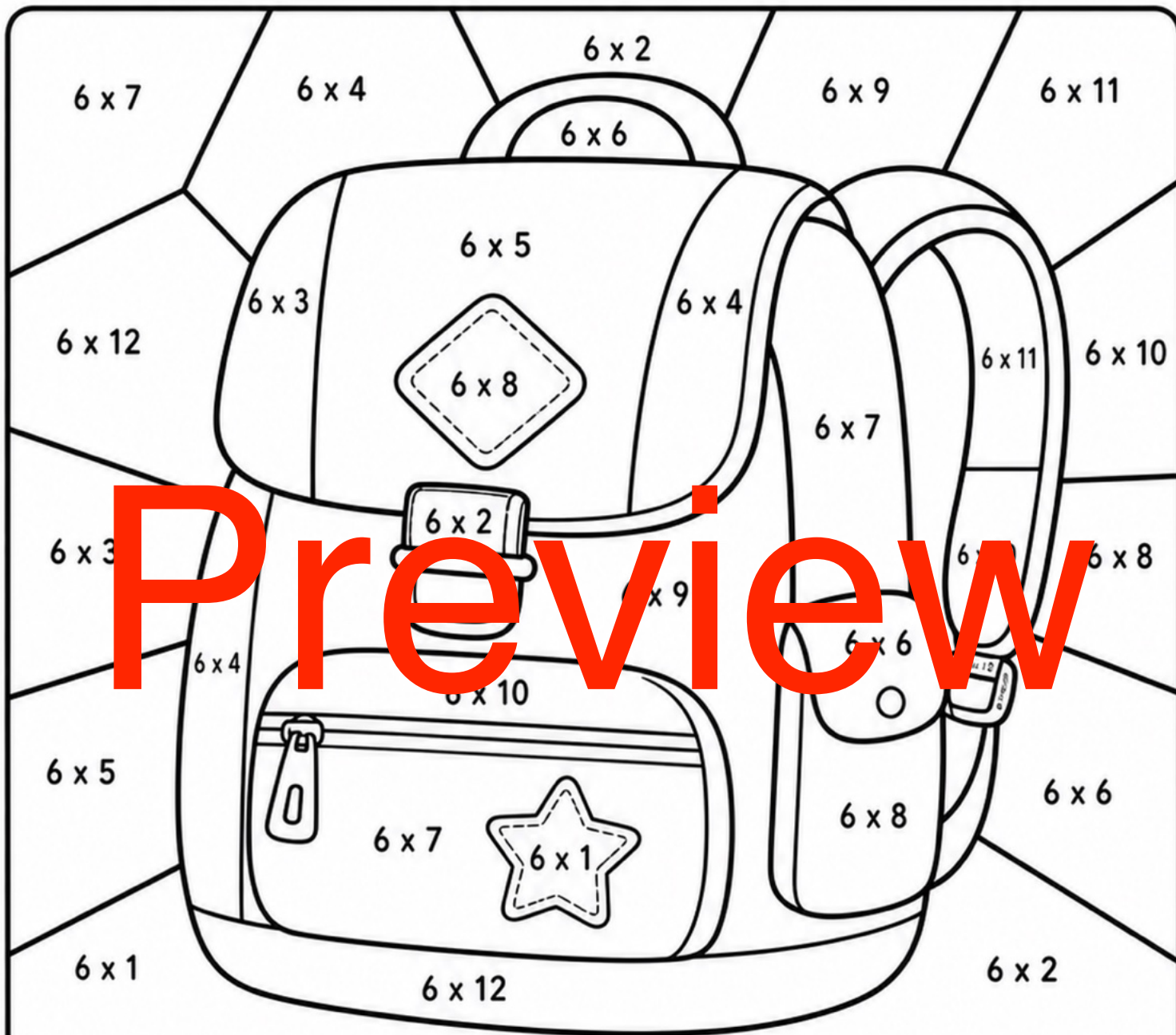
Name: _____



Colour by Product 6x



Solve each fact. Use the colour key to colour the picture.



Preview

6 red

30 blue

54 grey

12 orange

36 navy

60 lime

18 yellow

42 purple

66 brown

24 green

48 pink

72 teal

Answer Key



Colour by Product 6x



Solve each fact. Use the colour key to colour the picture.



6



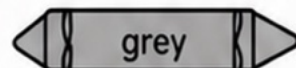
red

30



blue

54



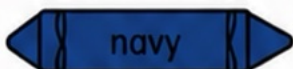
grey

12



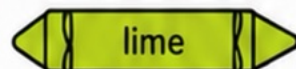
orange

36



navy

60



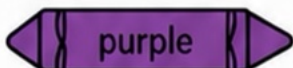
lime

18



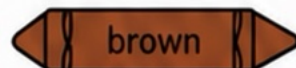
yellow

42



purple

66



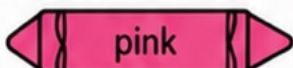
brown

24



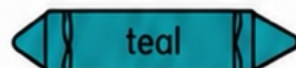
green

48



pink

72



teal



Name: _____



6x Multiplication Chatterbox

 Cut around the outside. Fold on dashed lines. Write the products, colour, and test a partner.

6×1	6×2
6×8	6×7
6×6	6×3
6×5	6×4

Preview



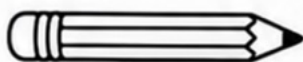
Answer Key



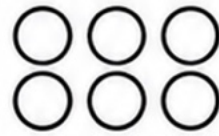
6x Multiplication Chatterbox

 Cut around the outside. Fold on dashed lines. Write the products, colour, and test a partner.

6×8	6×1	6×2	6×7
			
6×9			6×3
			
	6×5	6×4	



Name: _____



Sixes Division Fact Flaps

Write each quotient. Fold on the dashed line.
Cut on the dotted lines. Use the flaps to test yourself.



① $6 \div 6 =$ _____

② $12 \div 6 =$ _____

③ $18 \div 6 =$ _____

④ $24 \div 6 =$ _____

⑤ $30 \div 6 =$ _____

⑥ $36 \div 6 =$ _____

⑦ $42 \div 6 =$ _____

⑧ $48 \div 6 =$ _____

⑨ $54 \div 6 =$ _____

⑩ $60 \div 6 =$ _____

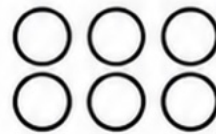
⑪ $66 \div 6 =$ _____

⑫ $72 \div 6 =$ _____

Preview



Name: **Answer Key** _____



Sixes Division Fact Flaps

Write each quotient. Fold on the dashed line.
Cut on the dotted lines. Use the flaps to test yourself.



① $6 \div 6 = \underline{1}$

② $12 \div 6 = \underline{2}$

③ $18 \div 6 = \underline{3}$

④ $24 \div 6 = \underline{4}$

⑤ $30 \div 6 = \underline{5}$

⑥ $36 \div 6 = \underline{6}$

⑦ $42 \div 6 = \underline{7}$

⑧ $48 \div 6 = \underline{8}$

⑨ $54 \div 6 = \underline{9}$

⑩ $60 \div 6 = \underline{10}$

⑪ $66 \div 6 = \underline{11}$

⑫ $72 \div 6 = \underline{12}$

Preview





Name: _____



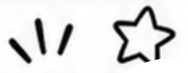
Roll and Solve: Divide by 6



Roll a die. Find the matching number at the base of the column.
Solve the division fact in that column.
Keep playing until you reach the top of the column.



$6 \div 6 = \underline{\quad}$	$12 \div 6 = \underline{\quad}$	$18 \div 6 = \underline{\quad}$	$24 \div 6 = \underline{\quad}$	$30 \div 6 = \underline{\quad}$	$36 \div 6 = \underline{\quad}$
$42 \div 6 = \underline{\quad}$	$48 \div 6 = \underline{\quad}$	$54 \div 6 = \underline{\quad}$	$60 \div 6 = \underline{\quad}$	$66 \div 6 = \underline{\quad}$	$72 \div 6 = \underline{\quad}$
$24 \div 6 = \underline{\quad}$	$30 \div 6 = \underline{\quad}$	$42 \div 6 = \underline{\quad}$	$48 \div 6 = \underline{\quad}$	$54 \div 6 = \underline{\quad}$	$60 \div 6 = \underline{\quad}$
$60 \div 6 = \underline{\quad}$	$6 \div 6 = \underline{\quad}$	$72 \div 6 = \underline{\quad}$	$48 \div 6 = \underline{\quad}$	$54 \div 6 = \underline{\quad}$	$24 \div 6 = \underline{\quad}$
$18 \div 6 = \underline{\quad}$	$54 \div 6 = \underline{\quad}$	$30 \div 6 = \underline{\quad}$	$12 \div 6 = \underline{\quad}$	$72 \div 6 = \underline{\quad}$	$6 \div 6 = \underline{\quad}$
$66 \div 6 = \underline{\quad}$	$42 \div 6 = \underline{\quad}$	$24 \div 6 = \underline{\quad}$	$36 \div 6 = \underline{\quad}$	$48 \div 6 = \underline{\quad}$	$54 \div 6 = \underline{\quad}$
$72 \div 6 = \underline{\quad}$	$30 \div 6 = \underline{\quad}$	$6 \div 6 = \underline{\quad}$	$66 \div 6 = \underline{\quad}$	$18 \div 6 = \underline{\quad}$	$42 \div 6 = \underline{\quad}$
					





Name: Answer Key



Roll and Solve: Divide by 6



Roll a die. Find the matching number at the base of the column.
Solve the division fact in that column.
Keep playing until you reach the top of the column.



$6 \div 6 = 1$	$12 \div 6 = 2$	$18 \div 6 = 3$	$24 \div 6 = 4$	$30 \div 6 = 5$	$36 \div 6 = 6$
$42 \div 6 = 7$	$48 \div 6 = 8$	$54 \div 6 = 9$	$60 \div 6 = 10$	$66 \div 6 = 11$	$72 \div 6 = 12$
$24 \div 6 = 4$	$36 \div 6 = 6$	$42 \div 6 = 7$	$48 \div 6 = 8$	$54 \div 6 = 9$	$60 \div 6 = 10$
$60 \div 6 = 10$	$6 \div 6 = 1$	$72 \div 6 = 12$	$48 \div 6 = 8$	$54 \div 6 = 9$	$24 \div 6 = 4$
$18 \div 6 = 3$	$54 \div 6 = 9$	$30 \div 6 = 5$	$12 \div 6 = 2$	$72 \div 6 = 12$	$6 \div 6 = 1$
$66 \div 6 = 11$	$42 \div 6 = 7$	$24 \div 6 = 4$	$36 \div 6 = 6$	$48 \div 6 = 8$	$54 \div 6 = 9$
$72 \div 6 = 12$	$30 \div 6 = 5$	$6 \div 6 = 1$	$66 \div 6 = 11$	$18 \div 6 = 3$	$42 \div 6 = 7$
					



Name: _____

Colour by Quotient: Divide by 6

Solve each division fact.
Match the quotient to
the colour key and
colour the picture.



$48 \div 6 = \underline{\quad}$



$18 \div 6 = \underline{\quad}$



$24 \div 6 = \underline{\quad}$



$30 \div 6 = \underline{\quad}$



$54 \div 6 = \underline{\quad}$



$42 \div 6 = \underline{\quad}$



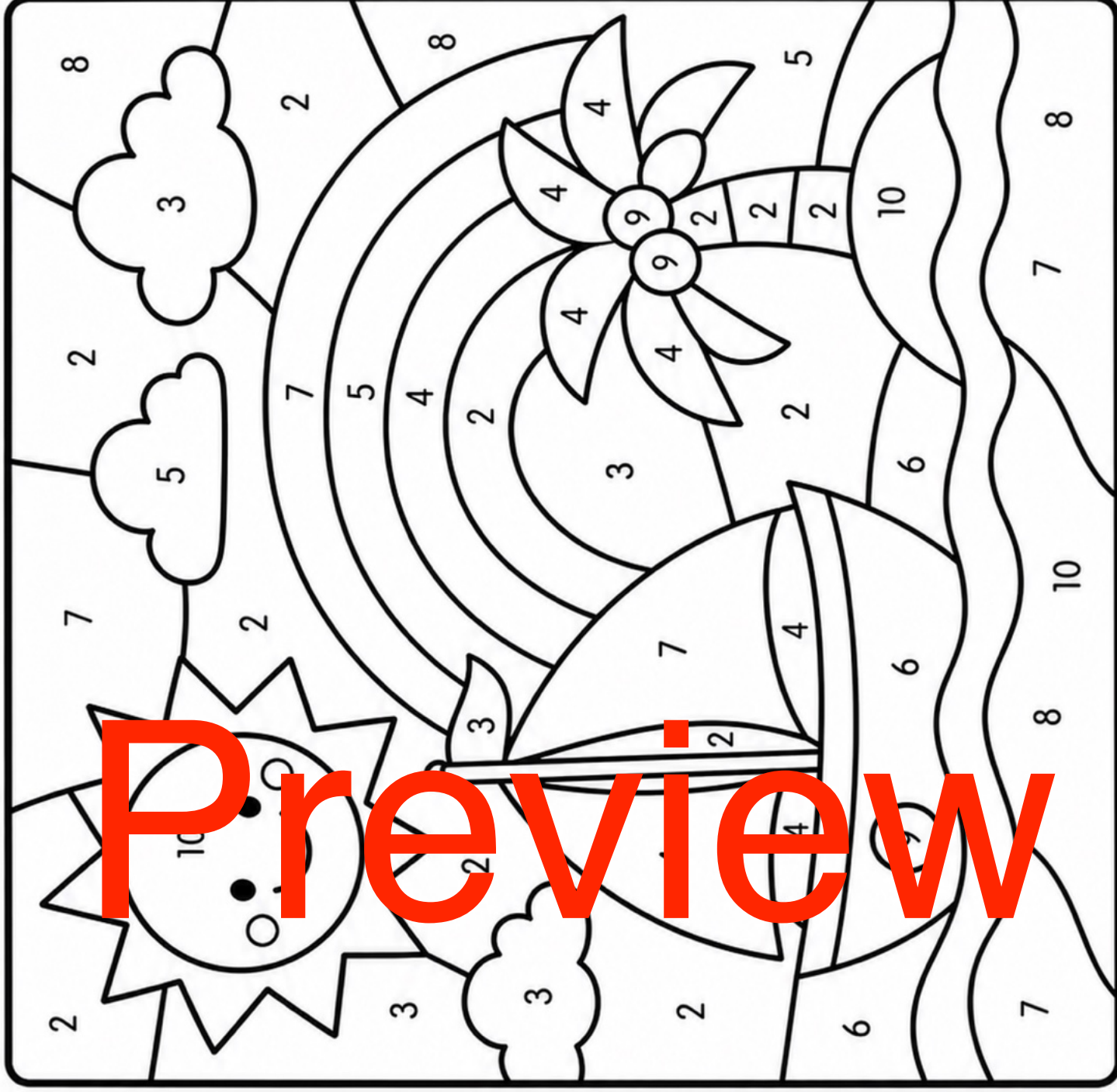
$12 \div 6 = \underline{\quad}$



$36 \div 6 = \underline{\quad}$



$60 \div 6 = \underline{\quad}$



Name: Answer Key

Colour by Quotient: Divide by 6

Solve each division fact.
Match the quotient to
the colour key and
colour the picture.



$48 \div 6 = 8$



$18 \div 6 = 3$



$24 \div 6 = 4$



$30 \div 6 = 5$



$54 \div 6 = 9$



$42 \div 6 = 7$



$12 \div 6 = 2$



$36 \div 6 = 6$



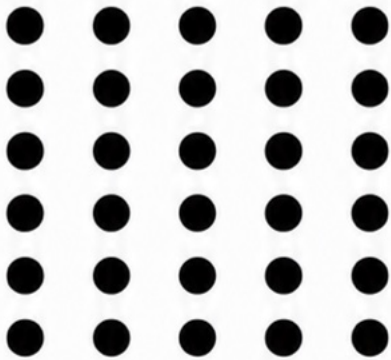
$60 \div 6 = 10$



Super Sixes Quiz

Name: _____

- ① Look at the array below.
Write the two multiplication facts
and two related division facts.



$$\square \times \square = \square$$

$$\square \times \square = \square$$

$$\square \div \square = \square$$

$$\square \div \square = \square$$

- ② Explain how the array shows related facts.

Preview

Instructions: Complete the multiplication and division facts.

MULTIPLICATION FACTS

- ① $6 \times 3 =$ _____
- ② $6 \times 2 =$ _____
- ③ $5 \times 6 =$ _____
- ④ $6 \times 10 =$ _____
- ⑤ $6 \times 6 =$ _____
- ⑥ $8 \times 6 =$ _____
- ⑦ $6 \times 1 =$ _____
- ⑧ $4 \times 6 =$ _____
- ⑨ $7 \times 6 =$ _____
- ⑩ $6 \times 9 =$ _____

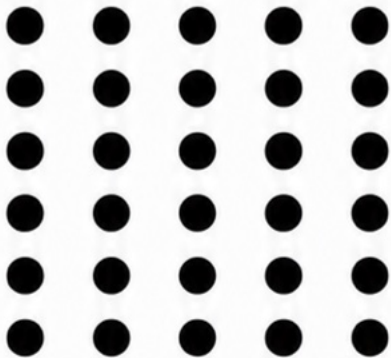
DIVISION FACTS

- ① $30 \div 6 =$ _____
- ② $24 \div 6 =$ _____
- ③ $6 \div 6 =$ _____
- ④ $18 \div 6 =$ _____
- ⑤ $36 \div 6 =$ _____
- ⑥ $12 \div 6 =$ _____
- ⑦ $48 \div 6 =$ _____
- ⑧ $42 \div 6 =$ _____
- ⑨ $54 \div 6 =$ _____
- ⑩ $60 \div 6 =$ _____

Super Sixes Quiz

Name: **Answer Key**

- ① Look at the array below.
Write the two multiplication facts
and two related division facts.



$$6 \times 5 = 30$$

$$5 \times 6 = 30$$

$$30 \div 6 = 5$$

$$30 \div 5 = 6$$

- ② Explain how the array shows related facts.

6 rows of 5 make 30.

The facts all use the same total.

MULTIPLICATION FACTS

- ① $6 \times 3 = 18$
- ② $6 \times 2 = 12$
- ③ $5 \times 6 = 30$
- ④ $6 \times 10 = 60$
- ⑤ $6 \times 6 = 36$
- ⑥ $8 \times 6 = 48$
- ⑦ $6 \times 1 = 6$
- ⑧ $4 \times 6 = 24$
- ⑨ $7 \times 6 = 42$
- ⑩ $6 \times 9 = 54$

DIVISION FACTS

- ① $30 \div 6 = 5$
- ② $24 \div 6 = 4$
- ③ $6 \div 6 = 1$
- ④ $18 \div 6 = 3$
- ⑤ $36 \div 6 = 6$
- ⑥ $12 \div 6 = 2$
- ⑦ $48 \div 6 = 8$
- ⑧ $42 \div 6 = 7$
- ⑨ $54 \div 6 = 9$
- ⑩ $60 \div 6 = 10$

Instructions: Complete the multiplication and division facts.

Spin and Catch 6x



You need:

a paper clip and a coloured pencil for each player.

How to play:

- Spin the 6x spinner.
- Work out the product.
- Find a kite with the matching answer and trace around it.
- If it is already traced, colour it to claim it.
- First to claim 5 kites wins.

Challenge:

Keep playing until every kite is claimed.



Spin and Colour 6x



You need:

a paper clip and
one coloured pencil
for each player.



How to play:



- Spin the 6x spinner.
- Work out the product.
- Find a balloon showing the matching answer and trace around it.
- If it has already been traced, colour it to claim it.
- First to claim 5 balloons wins.

Challenge:

Play until every
balloon has been
claimed; player with
the most balloons
wins.



Preview

Make Four 6x

Instructions:

- Choose a coloured pencil and playing piece.
- Place your piece on START.
- Roll a die and move around the track.
- Write the product you land on under a matching equation.
- Make four in a row horizontally, vertically or diagonally wins.

6×3	6×11	6×2	6×7	6×5	6×9
6×12	6×4	6×8	6×8	6×1	6×10
6×0	6×7	6×2	6×11	6×4	6×6
6×9	6×3	6×8	6×1	6×5	6×12
6×10	6×6	6×0	6×9	6×3	6×2

Four in a Row 6x

- Instructions:**
- Choose a coloured pencil and game piece.
 - Write the product you land on below a matching equation.
 - Move that many spaces.
 - The first player to make four in a row wins.

6×12	6×3	6×5	6×9	6×2
6×1	6×8	6×11	6×0	6×6
6×10	6×2	6×9	6×1	6×8
6×4	6×0	6×12	6×3	6×5
6×8	6×11	6×4	6×10	6×2
6×5	6×6	6×0	6×12	6×7

START

6

12

18

24

30

36

42

48

54

60

66

72

0

6

18

30

42

54

66

72

0

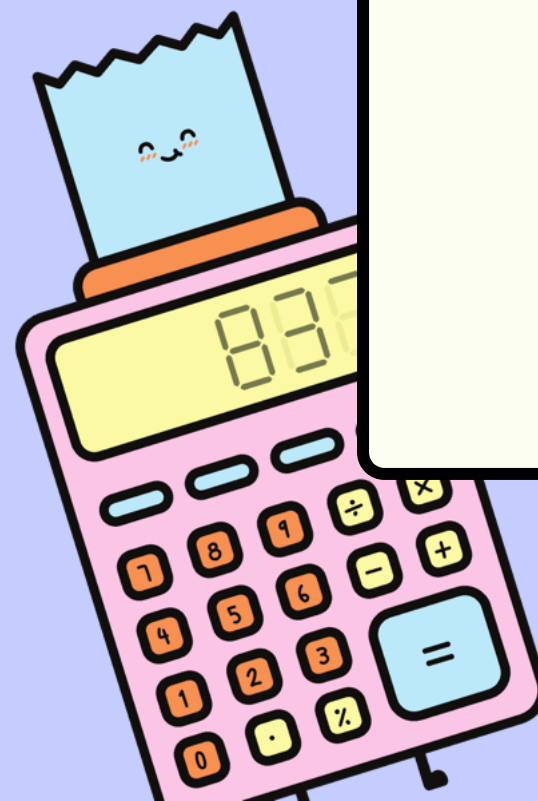
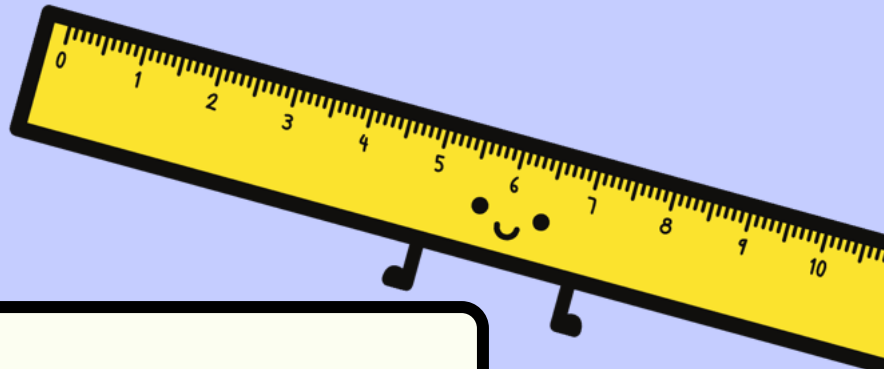
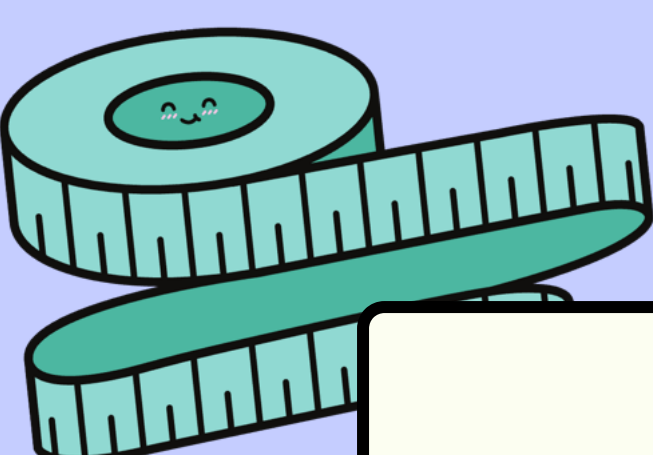
60

48

36

24

12



Superb Sixes

Preview

6x times tables



Learning Intention

Today we will build **fast recall** of the 6 times tables.

We will use strategies to solve facts accurately, explain our thinking, and connect

multiplication with division

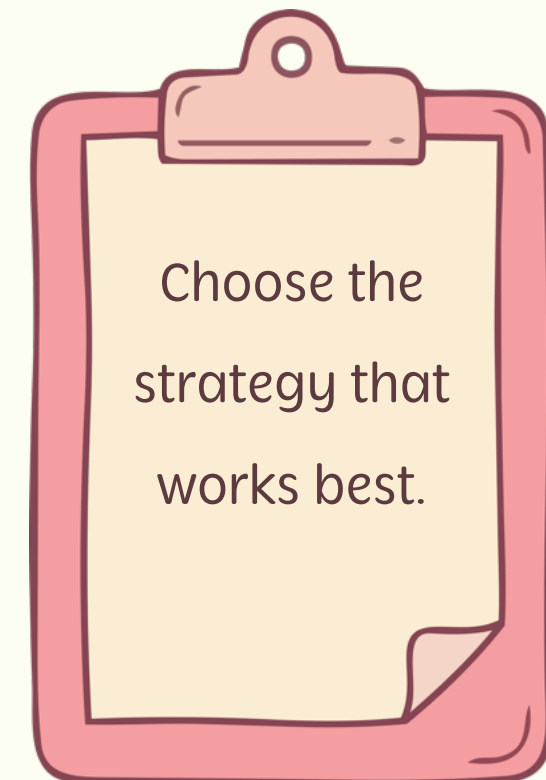
Preview



Success Criteria

- I can use **3s**, **5s**, patterns and turnarounds to work out $6\times$ facts.
- I can explain how a known fact helps me find an unknown fact.
- I can use multiplication facts to solve related division facts.

Preview



Strategy Toolkit

For the 6s, keep these tools ready:

Double the 3s

Add one more group to the 5s

Spot the repeating end digits

Use turnarounds

Build fact families

Preview



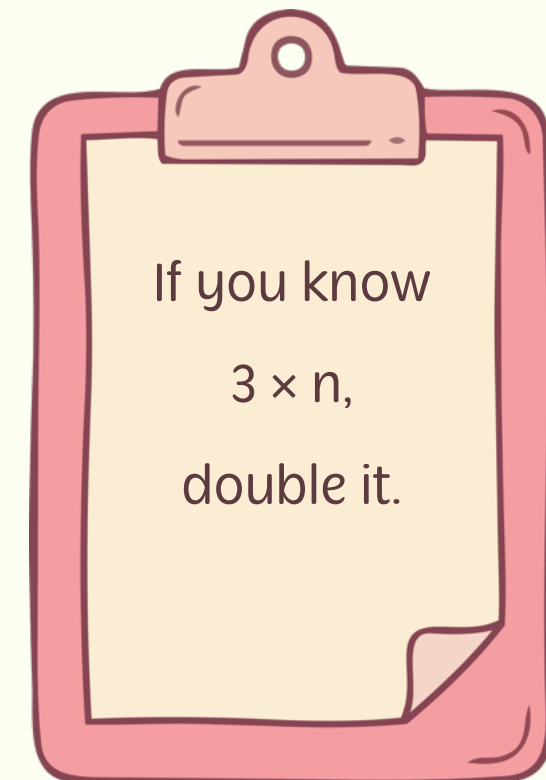
Double the 3s

Because **6 is double 3**, each 6x fact is double the matching 3x fact.

Preview

$$\begin{array}{l} 3 \times 4 = 12 \\ 6 \times 4 = \mathbf{24} \end{array}$$

Think: double 12 to make 24.



Try It With 3s

Use the 3s fact, then double it.

Preview

$$3 \times 7 = 21 \rightarrow 6 \times 7 = 42$$

$$3 \times 8 = 24 \rightarrow 6 \times 8 = 48$$

$$3 \times 9 = 27 \rightarrow 6 \times 9 = 54$$



Use the 5s

A 6x fact is one more group than a 5x fact.

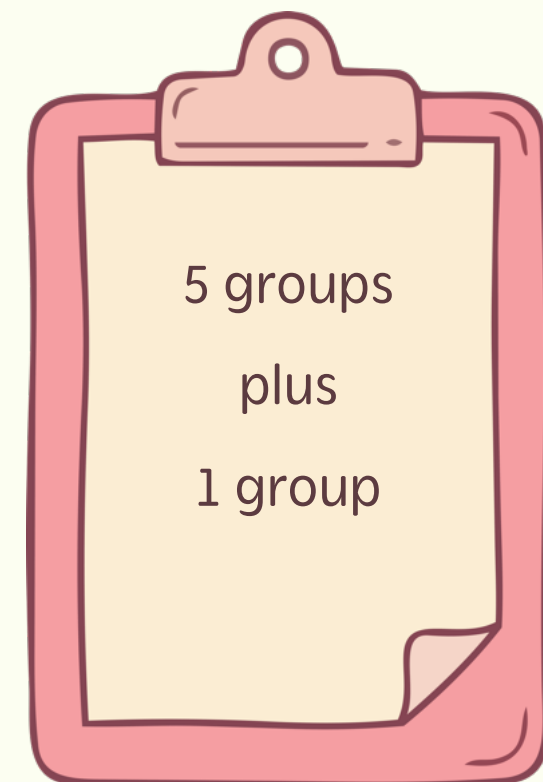
Preview

To solve 6×7 :

$$5 \times 7 = 35$$

$$35 + 7 = \mathbf{42}$$

$$\text{So, } 6 \times 7 = \mathbf{42}$$



Patterns in the 6s

The multiples of 6 follow a steady pattern.

6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72

Preview

The final digit repeats: **6, 2, 8, 4, 0.**



Turnarounds

Multiplication facts can be turned around.

The product stays the same.

Preview

$$6 \times 8 = 48$$

$$8 \times 6 = 48$$

Learn one fact, and you have learnt its turnaround too.



Multiplication Practice

Solve these using any strategy.

$1. 6 \times 4 = \underline{\quad}$

$6. 6 \times 3 = \underline{\quad}$

$11. 6 \times 7 = \underline{\quad}$

$2. 5 \times 6 = \underline{\quad}$

$7. 6 \times 8 = \underline{\quad}$

$12. 6 \times 0 = \underline{\quad}$

$3. 3 \times 6 = \underline{\quad}$

$8. 6 \times 10 = \underline{\quad}$

$13. 10 \times 6 = \underline{\quad}$

$4. 2 \times 6 = \underline{\quad}$

$9. 4 \times 6 = \underline{\quad}$

$14. 1 \times 6 = \underline{\quad}$

$5. 6 \times 1 = \underline{\quad}$

$10. 9 \times 6 = \underline{\quad}$

$15. 6 \times 9 = \underline{\quad}$

Preview



Multiplication Answers

- | | | |
|--------------|---------------|---------------|
| 1. 24 | 6. 18 | 11. 42 |
| 2. 30 | 7. 48 | 12. 0 |
| 3. 18 | 8. 60 | 13. 60 |
| 4. 12 | 9. 24 | 14. 6 |
| 5. 6 | 10. 54 | 15. 54 |

Preview



Division With 6s

Division can feel harder at first, but multiplication facts help.

Division is the **inverse operation** of multiplication.
That means it works in the opposite direction.



Fact Families

One multiplication fact can make four related facts.

Preview

$$3 \times 6 = 18$$

$$6 \times 3 = 18$$

$$18 \div 6 = 3$$

$$18 \div 3 = 6$$



Use an Array

An array can show the whole fact family.

24 objects arranged as 4 rows of 6 shows:

$$4 \times 6 = 24$$

$$6 \times 4 = 24$$

$$24 \div 6 = 4$$

$$24 \div 4 = 6$$



All of the Sixes

$6 \times 1 = \mathbf{6}$ $6 \div 6 = \mathbf{1}$

$6 \times 2 = \mathbf{12}$ $12 \div 6 = \mathbf{2}$

$6 \times 3 = \mathbf{18}$ $18 \div 6 = \mathbf{3}$

$6 \times 4 = \mathbf{24}$ $24 \div 6 = \mathbf{4}$

$6 \times 5 = \mathbf{30}$ $30 \div 6 = \mathbf{5}$

$6 \times 6 = \mathbf{36}$ $36 \div 6 = \mathbf{6}$

$6 \times 7 = \mathbf{42}$ $42 \div 6 = \mathbf{7}$

$6 \times 8 = \mathbf{48}$ $48 \div 6 = \mathbf{8}$

$6 \times 9 = \mathbf{54}$ $54 \div 6 = \mathbf{9}$

$6 \times 10 = \mathbf{60}$ $60 \div 6 = \mathbf{10}$

Preview



Division Practice

Use multiplication to solve each division fact.

Preview

1. $24 \div 6 =$ _____

6. $12 \div 6 =$ _____

11. $50 \div 5 =$ _____

2. $36 \div 6 =$ _____

7. $6 \div 6 =$ _____

12. $6 \div 1 =$ _____

3. $12 \div 6 =$ _____

8. $24 \div 4 =$ _____

13. $48 \div 6 =$ _____

4. $54 \div 6 =$ _____

9. $30 \div 6 =$ _____

14. $42 \div 6 =$ _____

5. $30 \div 5 =$ _____

10. $18 \div 6 =$ _____

15. $48 \div 8 =$ _____



Division Answers

1. **4** 6. **6** 11. **10**

2. **6** 7. **1** 12. **6**

3. **2** 8. **6** 13. **8**

4. **9** 9. **5** 14. **7**

5. **6** 10. **3** 15. **6**

Preview

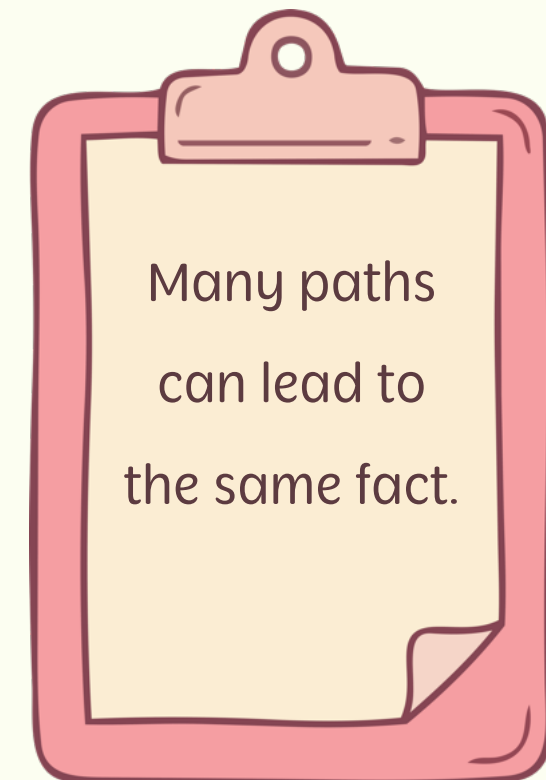


The 6s in Review

Use your strategy toolkit:

- Double the **3s**.
- Add one more group to the **5s**.
- Look for **patterns** in the multiples.
- Use **turnarounds**.
- Build **fact families** for division.

Preview



Say the Sixes

6 ones are **6**

6 twos are **12**

6 threes are **18**

6 fours are **24**

6 fives are **30**

6 sixes are **36**

6 sevens are **42**

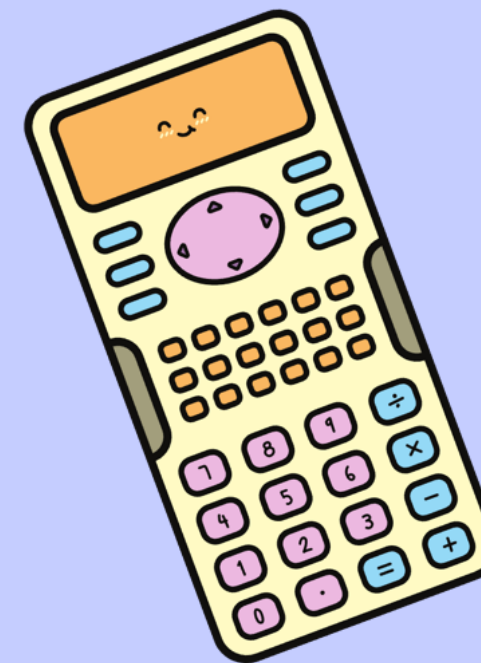
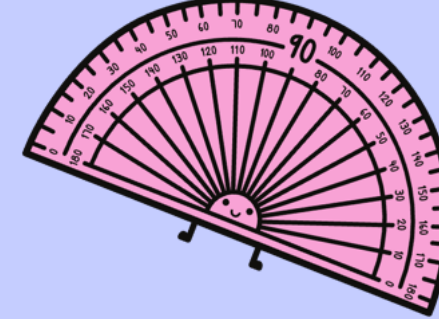
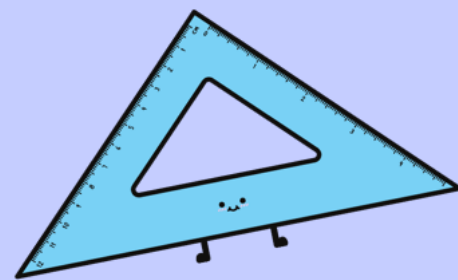
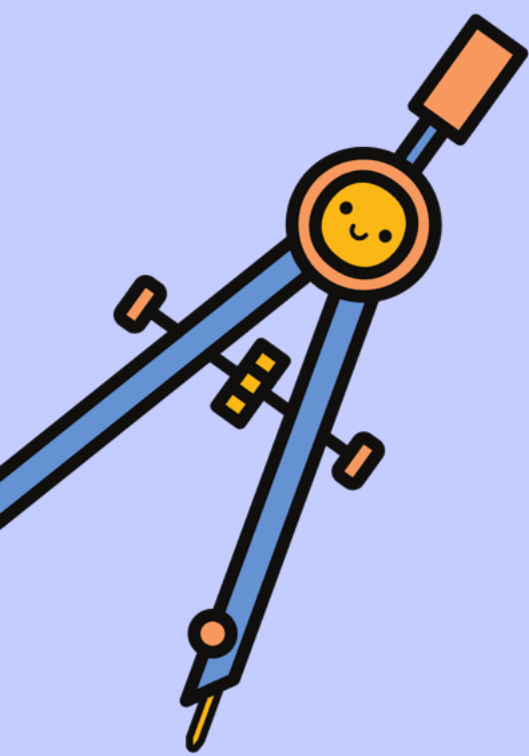
6 eights are **48**

6 nines are **54**

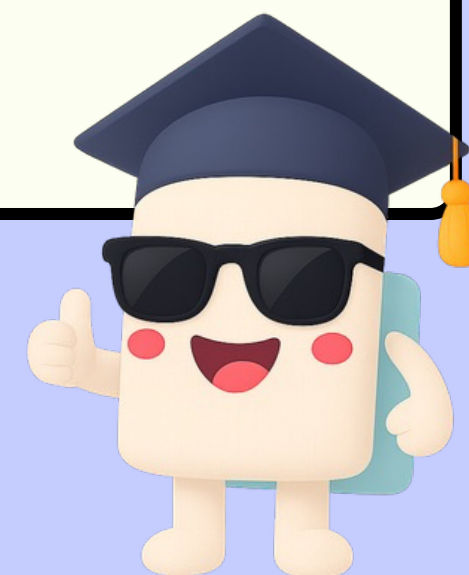
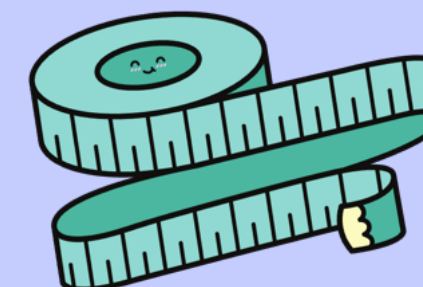
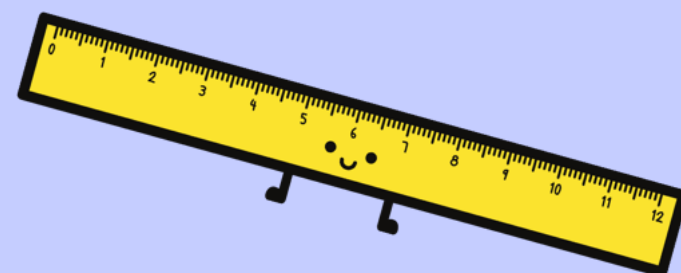
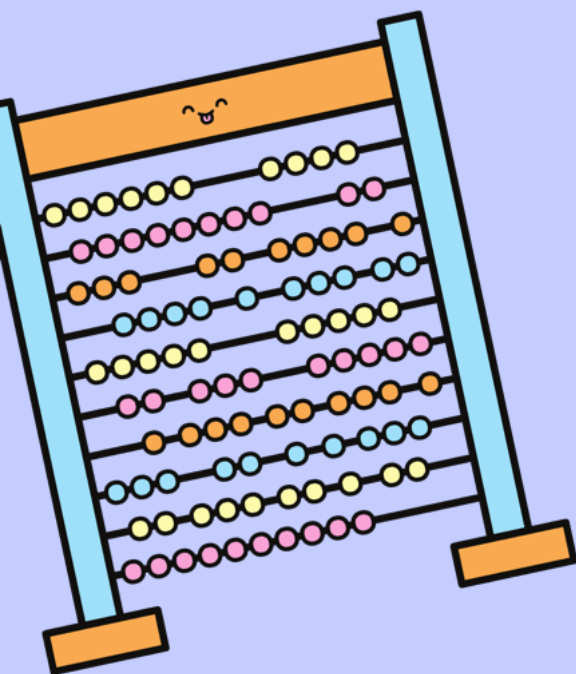
6 tens are **60**

Preview





Superb Sixes Complete!



Superb Sixes Quiz

Preview



Question 1

What is 6×7 ?

- A. 36
- B. 42
- C. 48
- D. 54

Preview



Question | Answer

What is 6×7 ?

A. 36

B. **42**

C. 48

D. 54

Preview



Question 2

True or false?

$$6 \times 5 = 35$$

Preview



Question 2 Answer

True or false?

$$6 \times 5 = 35$$

Preview

Answer: **False**. $6 \times 5 = 30$.



Question 3

Solve the division fact.

$$48 \div 6 = \text{---} \text{Preview}$$



Question 3 Answer

Solve the division fact.

$$48 \div 6 = \text{---} \text{Preview}$$

Answer: **8**



Question 4

Which equation belongs in the fact family for 6, 7 and 42?

A. $42 \div 7 = 6$

B. $42 + 7 = 49$

C. $7 \times 7 = 49$

D. $42 \div 6 = 8$

Preview



Question 4 Answer

Which equation belongs in the fact family for 6, 7 and 42?

A. $42 \div 7 = 6$

B. $42 + 7 = 49$

C. $7 \times 7 = 49$

D. $42 \div 6 = 8$

Answer: **A. $42 \div 7 = 6$**

Preview



Question 5

Find the missing factor.

$$\underline{\hspace{1cm}} \times 6 = 54$$

Preview



Question 5 Answer

Find the missing factor.

$$\underline{\hspace{2cm}} \times 6 = 54$$

Preview

Answer: **9**

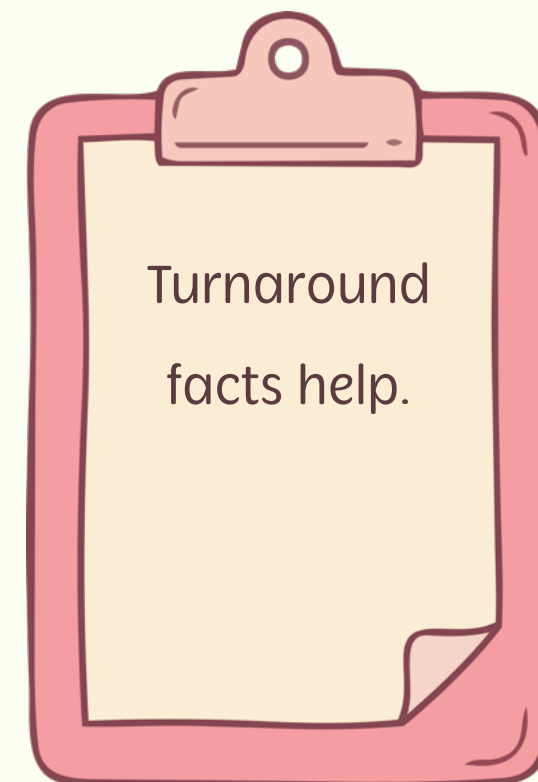


Question 6

True or false?

6×9 and 9×6 have the same product.

Preview



Question 6 Answer

True or false?

6×9 and 9×6 have the same product.

Preview

Answer: **True**. Turnarounds have the same product.



Question 7

What is the next multiple of 6 after 36?

- A. 38
- B. 40
- C. 42
- D. 48

Preview



Question 7 Answer

What is the next multiple of 6 after 36?

- A. 38
- B. 40
- C. **42**
- D. 48

Preview



Question 8

Thirty counters are shared equally into 6 groups.
How many counters are in each group?

Preview



Question 8 Answer

Thirty counters are shared equally into 6 groups.

How many counters are in each group?

Preview

Answer: **5** counters in each group.



Question 9

Which strategy correctly solves 6×4 using the 3s?

A. 3×4 , then double it

B. 3×4 , then add 6

C. 4×4 , then double it

D. 6×3 , then add 4

Preview



Question 9 Answer

Which strategy correctly solves 6×4 using the 3s?

A. 3×4 , then double it

B. 3×4 , then add 6

C. 4×4 , then double it

D. 6×3 , then add 4

Answer: **A. 3×4 , then double it**

Preview



Question 10

True or false?

$$72 \div 6 = 12$$

Preview



Question 10 Answer

True or false?

$72 \div 6 = 12$ Preview

Answer: **True**. $6 \times 12 = 72$.

