

Lesson 9 (R) – Multiplication & Division – Divide by 5

NC Objective:
Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers.

Resources needed:
Differentiated Sheets
Teaching Slides

Vocabulary:
Division, multiplication, grouping, sharing, equals sign, calculation, pattern

During this step, children focus on efficient strategies and whether they should use grouping or sharing depending on the context of the question. They use their knowledge of the five times table to help them divide by 5. They will continue to see the = sign both before and after the calculation.

Key Questions:

How can we represent the problem using objects/images?

How does knowing your 5 times table help when dividing by 5?

Circle all the multiples of 5 on a 100 square. What do you notice about the numbers?

Can you explain the pattern? How does this help you to divide these numbers? When would we count in 5s?

★ Working Towards

★★ Working Within

★★★ Greater Depth

Children solve calculations with the equals sign at both ends.

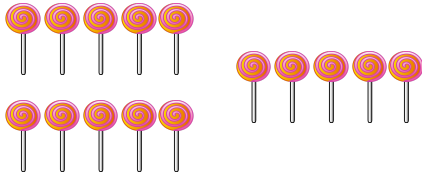
Children solve calculations with the equals sign at both ends. Children on this sheet have missing numbers to explore.

Children on this sheet are efficient in dividing by 5. They explore complex multi step word problems and comparison statements.

Reasoning & Problem Solving

Answer the division calculations below.

15 lollipops are shared between 5 children.



How many lollipops does each child get?

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

10 lollipops are shared between 5 children.



How many lollipops does each child get?

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



There are 20 bananas.
How many bananas will each monkey receive?

Write the calculation you used.



There are 5 bananas.
How many bananas will each monkey receive?

Write the calculation you used.

$$15 \div 5 = \square$$

$$5 \div 5 = \square$$

$$\square = 10 \div 5$$

$$20 \div 5 = \square$$

$$25 \div 5 = \square$$

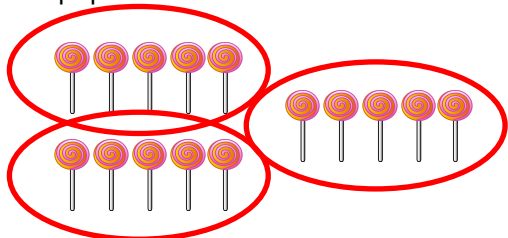
$$\square = 40 \div 5$$

$$30 \div 5 = \square$$

$$50 \div 5 = \square$$

Answer the division calculations below.

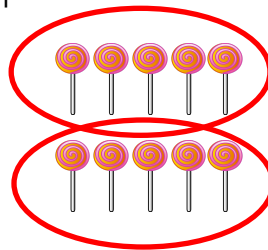
15 lollipops are shared between 5 children.



How many lollipops does each child get?

$$15 \div 5 = 3$$

10 lollipops are shared between 5 children.



How many lollipops does each child get?

$$10 \div 5 = 2$$



There are 20 bananas.
How many bananas will each monkey receive?

Write the calculation you used.

$$20 \div 5 = 4$$



There are 5 bananas.
How many bananas will each monkey receive?

Write the calculation you used.

$$5 \div 5 = 1$$

$$15 \div 5 = 3$$

$$5 \div 5 = 1$$

$$2 = 10 \div 5$$

$$20 \div 5 = 4$$

$$25 \div 5 = 5$$

$$8 = 40 \div 5$$

$$30 \div 5 = 6$$

$$50 \div 5 = 10$$



Answer the division calculations below.

25 lollipops are shared between 5 children.



How many lollipops does each child get?

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

40 lollipops are shared between 5 children.



How many lollipops does each child get?

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



There are thirty bananas.
How many bananas will each monkey receive?

Write the calculation you used.



There are fifteen bananas.
How many bananas will each monkey receive?

Write the calculation you used.

$$\square = 55 \div 5$$

$$5 \div 5 = \square$$

$$\square \div 5 = 10$$

$$\square \div 5 = 8$$

$$15 \div 5 = \square$$

$$\square = 60 \div 5$$

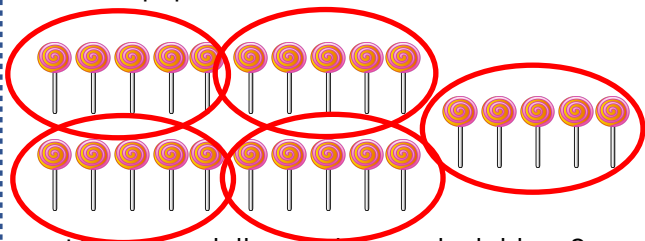
$$\square \div 5 = 5$$

$$20 \div 5 = \square$$



Answer the division calculations below.

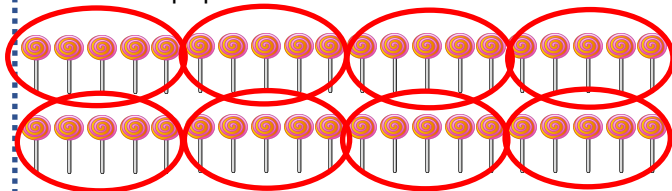
25 lollipops are shared between 5 children.



How many lollipops does each child get?

$$25 \div 5 = 5$$

40 lollipops are shared between 5 children.



How many lollipops does each child get?

$$40 \div 5 = 8$$



There are thirty bananas.
How many bananas will each monkey receive?

Write the calculation you used.

$$30 \div 5 = 6$$



There are fifteen bananas.
How many bananas will each monkey receive?

Write the calculation you used.

$$15 \div 5 = 3$$

$$11 = 55 \div 5$$

$$5 \div 5 = 1$$

$$50 \div 5 = 10$$

$$40 \div 5 = 8$$

$$15 \div 5 = 3$$

$$12 = 60 \div 5$$

$$25 \div 5 = 5$$

$$20 \div 5 = 4$$



Answer the division calculations below.

Tia has twenty-five marbles. She splits them equally so there are 5 in each bag.

She needs 12 marbles to play a game.

How many bags should she take?



Esin has forty marbles. She splits them equally so there are 5 in each bag.

She needs 18 marbles to play a game.

How many bags should she take?



Leanna has 20p in her pocket in 5p coins.

Malachi has 35p in his pocket in 5p coins.

Tia has nine coins in her pocket.
How many coins do they have altogether?



Draw a picture to help prove your answer.

Leanna has 30p in her pocket in 5p coins.

Malachi has 85p in his pocket in 5p coins.

Tia has 8 coins in her pocket.
Who has the most coins?



Draw a picture to help prove your answer.

Compare using comparison symbols.

> = <

$55 \div 5 \bigcirc 60 \div 2$

$12 \div 2 \bigcirc 30 \div 5$

$3 \text{ tens plus five ones divided by five} \bigcirc \text{thirty-five divided by five}$

Compare using comparison symbols.

> = <

$60 \div 5 \bigcirc 18 \div 2$

$5 \text{ tens subtract five ones divided by five} \bigcirc \text{forty-five divided by five}$

$10 \div 5 \bigcirc 8 \div 2$



Answer the division calculations below.

Tia has twenty-five marbles. She splits them equally so there are 5 in each bag.

She needs 12 marbles to play a game.

How many bags should she take?



3

Esin has forty marbles. She splits them equally so there are 5 in each bag.

She needs 18 marbles to play a game.

How many bags should she take?



4

Leanna has 20p in her pocket in 5p coins. **4**

Malachi has 35p in his pocket in 5p coins. **7**

Tia has nine coins in her pocket.
How many coins do they have altogether?

20



Draw a picture to help prove your answer.

Leanna has 30p in her pocket in 5p coins. **6**

Malachi has 85p in his pocket in 5p coins. **17**

Tia has 8 coins in her pocket.
Who has the most coins?

Malachi



Draw a picture to help prove your answer.

Compare using comparison symbols.

> = <

$55 \div 5$ **<** $60 \div 2$

$12 \div 2$ **=** $30 \div 5$

3 tens plus five ones divided by five **=** thirty-five divided by five

Compare using comparison symbols.

> = <

$60 \div 5$ **>** $18 \div 2$

5 tens subtract five ones divided by five **=** forty-five divided by five

$10 \div 5$ **<** $8 \div 2$

A party jar contains 5 sweets.

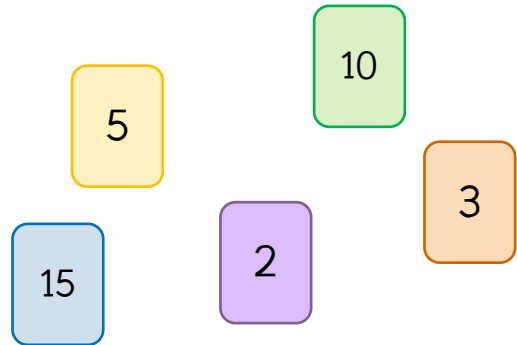


Ron has 25 sweets.

How many party jars will he need?

Use the number cards to make multiplication and division sentences.

How many can you make?



A party jar contains 5 sweets.

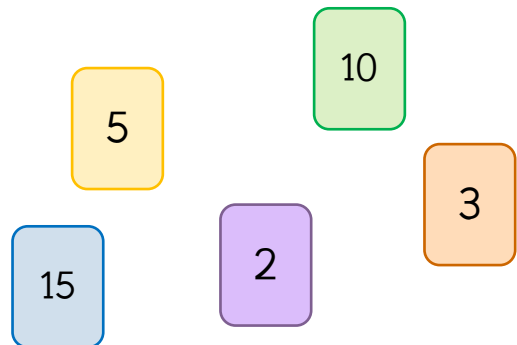


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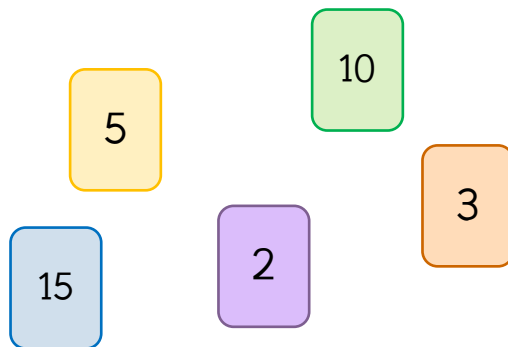
Ron has 25 sweets.

How many party jars will he need?

5 party jars. $25 \div 5 = 5$

Use the number cards to make multiplication and division sentences.

How many can you make?



$2 \times 5 = 10$, $5 \times 2 = 10$, $10 \div 2 = 5$, $10 \div 5 = 2$,
 $3 \times 5 = 15$, $5 \times 3 = 15$, $15 \div 3 = 5$, $15 \div 5 = 3$.

A party jar contains 5 sweets.



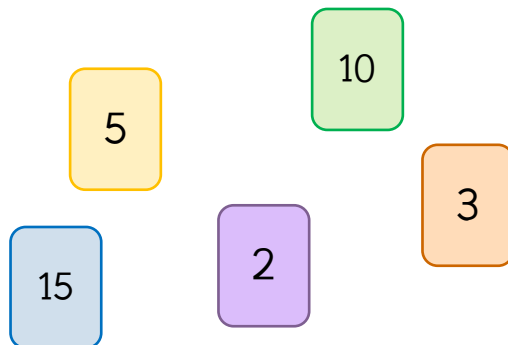
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Use the number cards to make multiplication and division sentences.

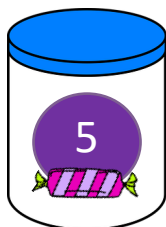
How many can you make?



$2 \times 5 = 10$, $5 \times 2 = 10$, $10 \div 2 = 5$, $10 \div 5 = 2$,
 $3 \times 5 = 15$, $5 \times 3 = 15$, $15 \div 3 = 5$, $15 \div 5 = 3$.



A party jar contains 5 sweets.

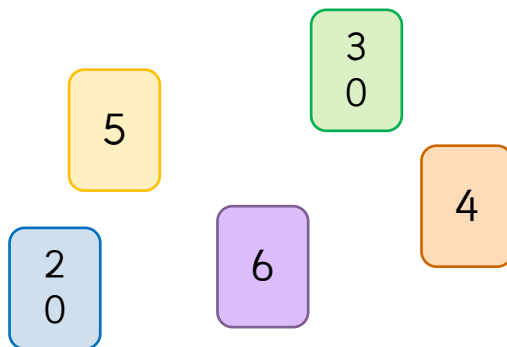


Ron has thirty-five sweets.

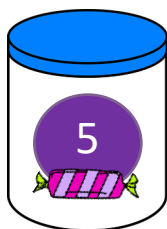
How many party jars will he need?

Use the number cards to make multiplication and division sentences.

How many can you make?



A party jar contains 5 sweets.

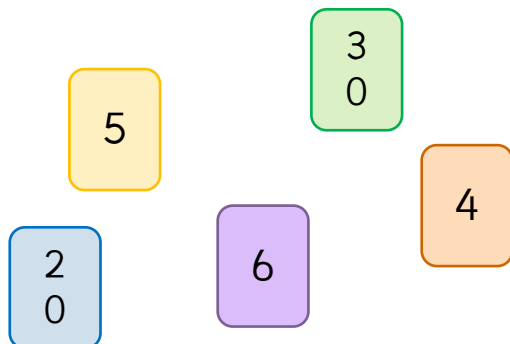


Ron has thirty-five sweets.

How many party jars will he need?

Use the number cards to make multiplication and division sentences.

How many can you make?





A party jar contains 5 sweets.



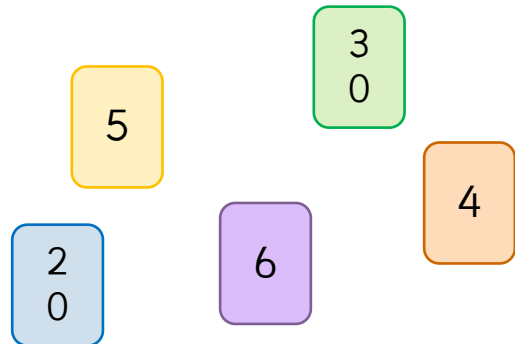
Ron has thirty-five sweets.

How many party jars will he need?

7 party jars. $35 \div 5 = 7$

Use the number cards to make multiplication and division sentences.

How many can you make?

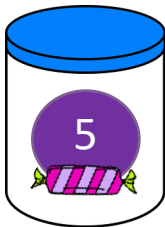


Examples

$4 \times 5 = 20$, $5 \times 4 = 20$, $20 \div 5 = 4$, $20 \div 4 = 5$,
 $6 \times 5 = 30$, $5 \times 6 = 30$, $30 \div 5 = 6$, $30 \div 6 = 5$.



A party jar contains 5 sweets.



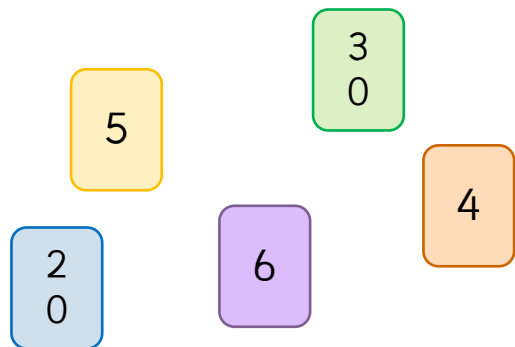
Ron has thirty-five sweets.

How many party jars will he need?

7 party jars. $35 \div 5 = 7$

Use the number cards to make multiplication and division sentences.

How many can you make?



Examples

$4 \times 5 = 20$, $5 \times 4 = 20$, $20 \div 5 = 4$, $20 \div 4 = 5$,
 $6 \times 5 = 30$, $5 \times 6 = 30$, $30 \div 5 = 6$, $30 \div 6 = 5$.



A party jar contains 5 sweets.
A box can hold 5 party jars.

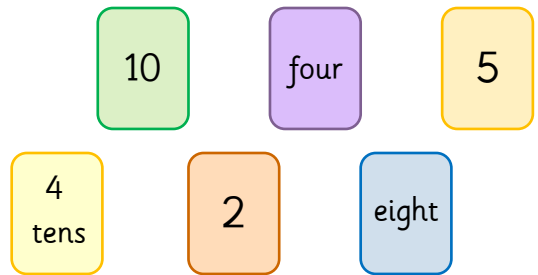


Ron has 50 sweets.

How many party jars will he need?

How many boxes will he need?

Use the number cards to make multiplication
and division sentences.
How many can you make?



A party jar contains 5 sweets.
A box can hold 5 party jars.

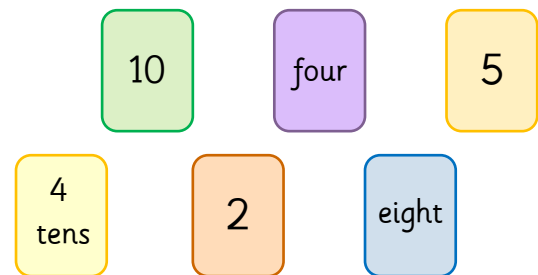


Ron has 50 sweets.

How many party jars will he need?

How many boxes will he need?

Use the number cards to make multiplication
and division sentences.
How many can you make?





A party jar contains 5 sweets.
A box can hold 5 party jars.



Ron has 50 sweets.

How many party jars will he need?

How many boxes will he need?

10 party jars. $50 \div 5 = 10$
2 boxes. $10 \div 5 = 2$

Use the number cards to make multiplication
and division sentences.
How many can you make?

Examples

10

four

5

4
tens

2

eight

$2 \times 5 = 10$, $5 \times 2 = 10$, $10 \div 2 = 5$, $10 \div 5 = 2$,
 $2 \times 4 = 8$, $4 \times 2 = 8$, $8 \div 2 = 4$, $8 \div 4 = 2$,
 $4 \times 10 = 40$, $10 \times 4 = 40$, $40 \div 4 = 10$, $40 \div 10 = 4$,
 $8 \times 5 = 40$, $5 \times 8 = 40$, $40 \div 8 = 5$, $40 \div 5 = 8$.



A party jar contains 5 sweets.
A box can hold 5 party jars.



Ron has 50 sweets.

How many party jars will he need?

How many boxes will he need?

10 party jars. $50 \div 5 = 10$
2 boxes. $10 \div 5 = 2$

Use the number cards to make multiplication
and division sentences.
How many can you make?

Examples

10

four

5

4
tens

2

eight

$2 \times 5 = 10$, $5 \times 2 = 10$, $10 \div 2 = 5$, $10 \div 5 = 2$,
 $2 \times 4 = 8$, $4 \times 2 = 8$, $8 \div 2 = 4$, $8 \div 4 = 2$,
 $4 \times 10 = 40$, $10 \times 4 = 40$, $40 \div 4 = 10$, $40 \div 10 = 4$,
 $8 \times 5 = 40$, $5 \times 8 = 40$, $40 \div 8 = 5$, $40 \div 5 = 8$.