Reasoning and Problem Solving
Step 8: The 5 Times Table

National Curriculum Objectives:

Mathematics Year 2: (2C6) Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Mathematics Year 2: (2C7) Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs

Differentiation:

Questions 1, 4 and 7 (Problem Solving)
Developing Use the cards to complete the calculation and identify the card which cannot be used. Uses knowledge of the 5 times tables and includes number track as support.
Expected Use the cards to complete the calculation and identify the card which cannot be used. Uses knowledge of the 5 times tables.
Greater Depth Use the cards to complete the calculation and identify the card which cannot be used. Uses knowledge of the 5 times tables and related multiplication facts.

Questions 2, 5 and 8 (Reasoning)
Developing Solve a word problem and explain the answer. Uses knowledge of the 5 times tables and includes pictorial and number track as support.
Expected Solve a word problem and explain the answer. Uses knowledge of the 5 times tables.
Greater Depth Solve a word problem and explain the answer. Uses knowledge of the 5 times tables and related multiplication facts.

Questions 3, 6 and 9 (Problem Solving)
Developing Find all possibilities using the given clues. Uses knowledge of the 5 times tables and includes number track as support.
Expected Find all possibilities using the given clues. Uses knowledge of the 5 times tables.
Greater Depth Find 3 possibilities using the given clues. Uses knowledge of the 5 times tables and related multiplication facts.

More Year 2 Multiplication and Division resources.

Did you like this resource? Don't forget to review it on our website.

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The 5 Times Table

5	10	15	20	25	30	35	40	45	50	55	60

1a. Fill in the missing boxes using the digit cards. Use the number track to help you.

3	10	1	15	5

☐ x 5 = ☐

Which card cannot be used?

D

PS

The 5 Times Table

5	10	15	20	25	30	35	40	45	50	55	60

1b. Fill in the missing boxes using the digit cards. Use the number track to help you.

45	25	5	9	30

☐ x 5 = ☐

Which card cannot be used?

D

PS

2a. Seth is baking cookies for 5 of his friends.

5	10	15	20	25	30	35	40	45	50	55	60

He wants to bake them 5 cookies each.

How many cookies does he need to bake? Explain your answer.

D

R

2b. Tia is sharing marbles out between 7 on her friends.

5	10	15	20	25	30	35	40	45	50	55	60

She wants to give them 5 marbles each.

How many marbles must Tia have to share out? Explain your answer.

D

R

3a. I am thinking of a number in the 5 times tables.

5	10	15	20	25	30	35	40	45	50	55	60

I multiplied 5 by a number that is bigger than 5 but smaller than 9.

The second digit is a 0.

What could my number be?
Write down all the possibilities.

D

PS

3b. I am thinking of a number in the 5 times tables.

5	10	15	20	25	30	35	40	45	50	55	60

I multiplied 5 by a number that is bigger than 2 but smaller than 6.

The second digit is a 5.

What could my number be?
Write down all the possibilities.

D

PS

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The 5 Times Table

4a. Fill in the missing boxes using the digit cards below.

9	8	7	45	35

☐ x 5 = ☐

Which card cannot be used?

E

PS

The 5 Times Table

4b. Fill in the missing boxes using the digit cards below.

50	55	10	12	60

☐ x 5 = ☐

Which card cannot be used?

E

PS

5a. Danny is planting seeds to grow flowers.

He wants to plant 8 seeds into 5 flower boxes.

How many seeds with does Danny need? Explain your answer.

E

R

5b. Lisa is sharing out the glue sticks in her classroom.

There are 6 tables and each table needs 5 glue sticks.

How many glue sticks will Lisa need? Explain your answer.

E

R

6a. I am thinking of a number in the 5 times tables.

I multiplied 5 by a number that is bigger than 3 but smaller than 7.

What could my number be?
Write down all the possibilities.

E

PS

6b. I am thinking of a number in the 5 times tables.

I multiplied 5 by a number that is bigger than 7 but smaller than 11.

What could my number be?
Write down all the possibilities.

E

PS

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The 5 Times Table

7a. Using the calculation 3 x 5 = 15, create related multiplications using the digit cards below.

6	45	12	60	30

☐ x 5 = ☐

Which card cannot be used?

GD

PS

The 5 Times Table

7b. Using the calculation 4 x 5 = 20, create related multiplications using the digit cards below.

8	80	40	16	12

☐ x 5 = ☐

Which card cannot be used?

GD

PS

8a. Bella has pack of 90 chocolate chips to decorate cookies and cupcakes.

Cookies and cupcakes get 5 chips each.

Bella decorates 11 cookies.

How many cupcakes can she decorate with the remaining chocolate chips? Explain your answer.

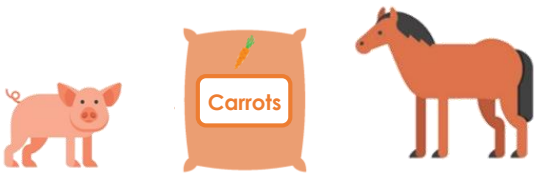
GD

R

8b. Oscar has a bag of 75 carrots to share between the horses and pigs.

All the animals get 5 carrots each.

Oscar feeds 7 horses.



How many pigs can he feed with the remaining carrots? Explain your answer.

GD

R

9a. I am thinking of a number in the 5 times tables.

I multiplied 5 by 2 numbers that are both bigger than 6 but smaller than 11.

I added my answers together to make my number.

What could my number be?
Write 3 possibilities.

GD

PS

9b. I am thinking of a number in the 5 times tables.

I multiplied 5 by 2 numbers that are both bigger than 8 but smaller than 12.

I added my answers together to make my number.

What could my number be?
Write 3 possibilities.

GD

PS

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Reasoning and Problem Solving
The 5 Times Table

Developing

1a. 3 x 5 = 15, 1 x 5 = 5; 10 cannot be used.

2a. Seth needs to bake 25 cookies because 5 x 5 = 25.

3a. The number could be 30 or 40 because 5 must have been multiplied by 6, 7 or 8; 6 x 5 = 30, 7 x 5 = 35, 8 x 5 = 40. Only 30 and 40 end in a 0.

Expected

4a. 9 x 5 = 45, 7 x 5 = 35; 8 cannot be used.

5a. Danny needs 40 seeds to be able to plant 8 in 5 flower boxes because 8 x 5 = 40.

6a. The number could be 20, 25 or 30 because 4 x 5 = 20, 5 x 5 = 25, 6 x 5 = 30.

Greater Depth

7a. 6 x 5 = 30, 12 x 5 = 60; 45 cannot be used.

8a. Bella can decorate 7 cupcakes because she has already used 55 of the chocolate chips; 11 x 5 = 55, 90 – 55 = 35. She has 35 chips left; 35 = 7 x 5.

9a. Various answers, for example: The number could be 85 because 7 and 10 are both bigger than 6 but smaller than 11; 7 x 5 = 35, 10 x 50 = 50, 30 + 50 = 85.

Reasoning and Problem Solving
The 5 Times Table

Developing

1b. 9 x 5 = 45, 5 x 5 = 25; 30 cannot be used.

2b. Tia needs 35 marbles to share with her friends because 7 x 5 = 35.

3b. The number could be 15 or 25 because 5 must have been multiplied by 3, 4 or 5; 3 x 5 = 15, 4 x 5 = 20, 5 x 5 = 25. Only 15 and 25 end in a 5.

Expected

4b. 12 x 5 = 60, 10 x 5 = 50; 55 cannot be used.

5b. Lisa needs 30 glue sticks to be able to put 5 on 6 tables because 6 x 5 = 30.

6b. The number could be 40, 45 or 50 because 8 x 5 = 40, 9 x 5 = 45, 10 x 5 = 50.

Greater Depth

7b. 8 x 5 = 40, 16 x 5 = 80; 12 cannot be used.

8b. Oscar can feed 8 pigs because he has already used 35 of the carrots; 7 x 5 = 35, 75 – 35 = 40. He has 40 carrots left; 40 = 8 x 5.

9b. Various answers, for example: The number could be 95 because 9 and 10 are both bigger than 8 but smaller than 12; 9 x 5 = 45, 10 x 5 = 50, 45 + 50 = 95.

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