# Reasoning and Problem Solving Step 5: Divide by 5 

## 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 $(\times)$, division $(\div)$ and equals ( $=$ ) signs
Mathematics Year 2: (2C8) Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts

## Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Identify which statement is correct using knowledge of dividing by 5, includes pictorials and where images are easily grouped.
Expected Identify which statement is correct using knowledge of dividing by 5. Includes using multiplication as the inverse.
Greater Depth Identify which statement is correct using knowledge of dividing by 5. Includes questions in context where children need to create their own pictorial support.

Questions 2, 5 and 8 (Reasoning)
Developing Identify how much money a group will receive using knowledge of dividing by 5 , includes pictorials and where images are easily grouped.
Expected Identify how much money a group will receive using knowledge of dividing by 5 Includes some pictorial support.
Greater Depth Identify a mystery number using knowledge of dividing by 5. Includes questions in context where children need to create their own pictorial support.

Questions 3, 6 and 9 (Problem Solving)
Developing Find and correct the pictorial mistake. Includes pictorials and where images are easily grouped.
Expected Find and correct the mistake. Includes some pictorial support and using multiplication as the inverse.
Greater Depth Find and correct the mistake. Includes questions in context where children need to create their own pictorial support.

## More Year 2 Multiplication and Division resources.

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## Divide by 5




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## Divide by 5

Divide by 5

7a. Joel had 45 sweets to share between 5 people. Joel ate 5 sweets before sharing the rest.


I think they will get 7 sweets each.

Who is correct? Explain why using a division picture and a multiplication sentence to prove it.

8a. Lily wants to share 5 pence coins between her 5 friends. Each friend receives 2 coins. How many coins did Lily share? How much money will they each get?


Explain your answer by drawing the extra coins and sharing them.

9a. Spot and correct the mistakes.

5 packets of crisps shared between 5 people = 1 packet each

Nine lots of 5 sweets equals 40

5 cinema tickets $=£ 30$, each ticket costs $£ 6$ each

4 lots of 5 p $=25$ one pence coins

7b. Kasey had 35 sweets to share between 5 people. Kasey ate 5 sweets before she shared the rest.


I think they will get 6 sweets each.

Who is correct? Explain why using a division picture and a multiplication sentence to prove it.

8b. Jamal wants to share 5 pence coins between his 7 friends. He shares 70p altogether. How many coins does each friend get? How many 5 pence coins will he need altogether?


Explain your answer by drawing the extra coins and sharing them.

9b. Spot and correct the mistakes.

10 marbles shared between 5 people $=$ 1 marble each

Three packs of five cards equals 15 cards

5 train rides $=£ 20$, each train ride costs $£ 5$ each

Eight 5 pence coins = two 20 pence coins

## Reasoning and Problem Solving Divide by 5

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## Developing

1b. Hannah is correct because $20 \div 5=4$.
2b. 4 p each, because $20 \div 5=4$
3b. It should say $35 \div 5=7$. One of the groups contains 10 instead of two groups containing 5.

## Expected

4b. Anna is correct because $55 \div 5=11$.
5b. 2 p, because $10 \div 5=2$
6b. $45 \div 5=9,25 \div 5=5$

## Greater Depth

7b. Kasey is correct because $35-5=30$, $30 \div 5=6.5 \times 6=30$.
8b. Each friend gets 2 coins each; he will need 14 coins altogether.
9b. 10 marbles shared between 5 people $=2$ marbles each; 5 train rides $=£ 20$, each train ride costs $£ 4$ each.

