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 (×), division (÷) and equals (=) signs

Mathematics Year 2: (2C8) <u>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</u>

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.

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

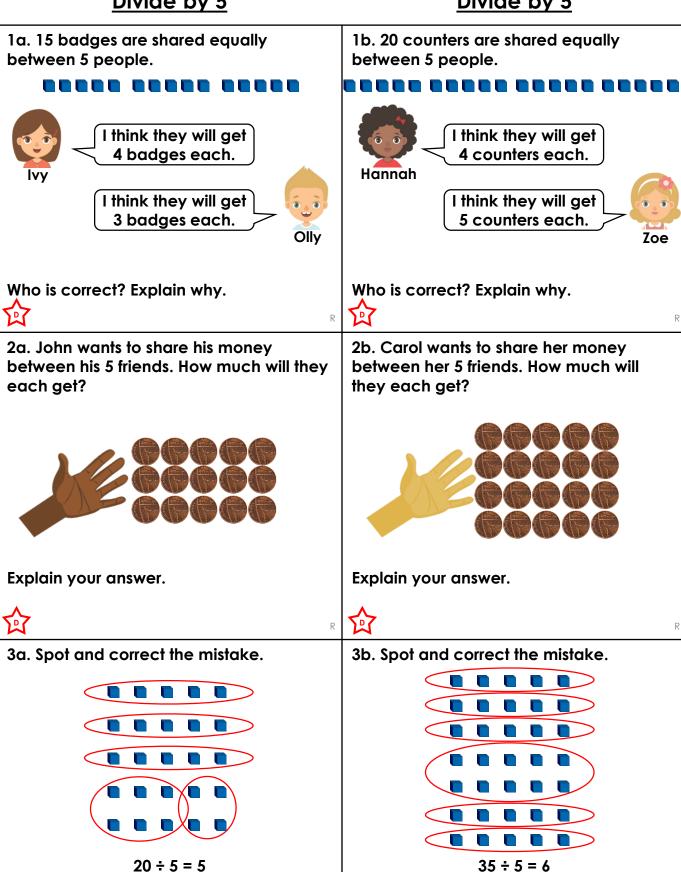


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Reasoning and Problem Solving – Divide by 5 – Teaching Information

Divide by 5

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Divide by 5

Divide by 5

I think they will get

9 crayons each

I think they will get

11 crayons each.

4b. 55 crayons are shared equally

between 5 people.

4a. 50 stickers are shared equally between 5 people.



I think they will get 10 stickers each

I think they will get 9 stickers each.



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



Bob

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



W

5a. Cara wants to share her money between her 5 friends. How much will they each get?



Explain your answer.

5b. Kevin wants to share his money between his 5 friends. How much will they each get?



Explain your answer.



6a. Spot and correct the mistakes.



6b. Spot and correct the mistakes.



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Divide by 5

Divide by 5

between 5 people. Kasey ate 5 sweets

I think they will get

8 sweets each

I think they will get 6 sweets each.

Kasev

7b. Kasey had 35 sweets to share

before she shared the rest.

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



I think they will get 8 sweets each

I think they will get 7 sweets each.

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



会

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?

Who is correct? Explain why using a

division picture and a multiplication



José

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?

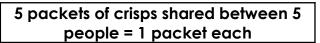




Explain your answer by drawing the extra coins and sharing them.



9a. Spot and correct the mistakes.



Nine lots of 5 sweets equals 40

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

4 lots of 5p = 25 one pence coins





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

Reasoning and Problem Solving <u>Divide by 5</u>

Developing

1a. Olly is correct because $15 \div 5 = 3$.

2a. 3p each, because $15 \div 5 = 3$

3a. It should say $25 \div 5 = 5$. The last two groups are uneven, it should be 5 groups of 5.

Expected

4a. Kris is correct because $50 \div 5 = 10$.

5a. 5p, because $25 \div 5 = 5$

 $6a. 30 \div 5 = 6, 40 \div 5 = 8$

Greater Depth

7a. Joel is correct because

45 - 5 = 40; $40 \div 5 = 8$; $5 \times 8 = 40$

8a. Lily had ten coins to share. Each friend will get 10p each.

9a. Nine lots of 5 sweets equals 45; 4 lots of

5p = 20 one pence coins

<u>Developing</u>

1b. Hannah is correct because $20 \div 5 = 4$.

2b. 4p 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. 2p, 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.

