

WA4MNADI1

Calculating with number

Core + Challenge

Division Facts (Inverse of Tables)

I can quickly and accurately recall division facts as the inverse of multiplication facts.

Name: _____ Date: _____ Score: / 53

Key idea

Division as the inverse of multiplication: every multiplication fact gives you two division facts for free. If $7 \times 8 = 56$, then $56 \div 8 = 7$ and $56 \div 7 = 8$. Knowing your times tables well is the fastest way to recall division facts. E.g. $63 \div 9$: think 'what times 9 gives 63?' $\rightarrow 7 \times 9 = 63$, so $63 \div 9 = 7$.

A Fluency *practise the skill*

/16 marks

Write the answer to each division fact. Use your times tables knowledge — think 'what number times the divisor gives the dividend?'

1. $56 \div 8 = ?$ _____

2. $54 \div 6 = ?$ _____

3. $28 \div 4 = ?$ _____

4. $64 \div 8 = ?$ _____

5. $54 \div 9 = ?$ _____

6. $21 \div 3 = ?$ _____

7. $81 \div 9 = ?$ _____

8. $40 \div 5 = ?$ _____

9. $42 \div 6 = ?$ _____

10. $72 \div 8 = ?$ _____

11. $42 \div 7 = ?$ _____

12. $36 \div 9 = ?$ _____

13. $48 \div 6 = ?$ _____

14. $63 \div 7 = ?$ _____

15. $80 \div 10 = ?$ _____

16. $63 \div 9 = ?$ _____

B Core *apply the skill to problems*

/21 marks

1

48 biscuits are shared equally among 6 friends. How many biscuits does each friend get?

[3 marks]

Answer: _____

2

72 stickers are shared equally among 8 students. Each student then gives 2 stickers to a friend outside the class. How many stickers does each student have left?

[4 marks]

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Answer: _____

3

A gardener plants 63 seedlings in rows of 7. How many rows does she plant?

[3 marks]

Answer: _____

4

80 apples are packed equally into 10 bags. If 3 of the bags are given away, how many apples are given away in total?

[4 marks]

Answer: _____

5

A baker has 54 cupcakes and puts them into boxes of 9. How many boxes does she need?

[3 marks]

Answer: _____

6

56 chairs are arranged into equal rows of 8. If 3 of those rows are then removed, how many chairs are left set up?

[4 marks]

Answer: _____

C

Reasoning *explain, justify and check*

/9 marks

1

Explain how knowing that $7 \times 8 = 56$ helps you work out $56 \div 8$.

[2 marks]

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2

Tom says $63 \div 9 = 6$. Use the related multiplication fact to show he is wrong, then give the correct answer.

[2 marks]

3

Explain the difference between what $56 \div 8$ and $56 \div 7$ are each asking you to find, even though both involve the number 56.

[2 marks]

4

A student says that dividing a number always makes it smaller. Is this true? Explain and give an example that supports your answer.

[3 marks]

D

Challenge *multi-step and problem-solving*

/7 marks

1

Find a division fact (whole numbers only) where the dividend is between 60 and 70, and the answer (quotient) is exactly 8. Show the division.

[2 marks]

Answer: _____

2

A number divided by 7 gives exactly 9. What is the number?

[2 marks]

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Answer: _____

3

72 students are being organised into equal teams for a sports day, with each team having between 6 and 9 students. How many different team sizes are possible, and how many teams would there be for each?

[3 marks]

Answer: _____

How did I go?

Fluency ____/16 Core ____/21 Reasoning ____/9 Challenge ____/7 **Total ____/53**

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