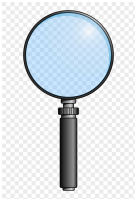
Name & Surname: _____ Class: _____ Date: _____

LONG DIVISION MASTERS

Divide 4-digit numbers by two digits



About 40 minutes Level ★★★☆☆

THE DIVISION LOOP

For 4-digit by 2-digit division, repeat the same **loop** until digits run out.

- Write the **dividend** inside and the **divisor** outside the bracket.
- **Divide**, then multiply, subtract and bring down in order.
- Keep one digit per square and write the **quotient** above.
- Always **check** by multiplying quotient × divisor and adding any remainder.

TASK A

/4

Fill each dividend into its place-value columns.

Number	Thousands	Hundreds	Tens	Ones
1872				
2496				
3744				
1508				

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FIRST DIVISION PRACTICE

Practise two-digit divisors with neat column layout.

KEY WORDS

dividend: total shared inside the bracket

divisor: number you divide by

quotient: answer written above the bracket

remainder: leftover after the last subtraction

multiple: answer in a times table

TASK B

/10

Work out these divisions using the loop.

WARM UP

1 Work out 468 ÷ 12 to find the **quotient**

Answer: _____

2 Work out 187 ÷ 11 to find the **quotient**

Answer: _____

3 Work out 936 ÷ 12 to find the **quotient**

Answer: _____

4 Work out 372 ÷ 12 to find the **quotient**

Answer: _____

PRACTISE

5 Work out 1824 ÷ 12. Show the **loop** steps

Answer: _____

6 Work out 2496 ÷ 12. Watch for the **zero**

Answer: _____

7 Work out 2352 ÷ 14 using a **multiples** list

Answer: _____

PROBLEM SOLVING

8 1848 pencils are packed in boxes of 12. How many **boxes** are filled?

Answer: _____

9 3276 sheets are shared equally among 14 classes. How many **sheets** per class?

Answer: _____

10 **Explain** why 208 is correct for 2496 ÷ 12 and where the **zero** comes from

Answer: _____

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STRONGER DIVISION CHALLENGES

Tackle harder divisors and explain remainders.

TASK C

/10

Solve these divisions with two-digit divisors.

WARM UP

1 Work out 336 ÷ 14 to find the **quotient**

Answer: _____

2 Work out 480 ÷ 16 to find the **quotient**

Answer: _____

3 Work out 390 ÷ 15 to find the **quotient**

Answer: _____

4 Work out 1152 ÷ 12 to find the **quotient**

Answer: _____

PRACTISE

5 Work out 1872 ÷ 12. Show the **loop** steps

Answer: _____

6 Work out 4312 ÷ 14. Watch for the **zero**

Answer: _____

7 Work out 2002 ÷ 14 using a **multiples** list

Answer: _____

PROBLEM SOLVING

8 2520 seats are set in rows of 14. How many **rows** are there?

Answer: _____

9 A printer makes 3080 copies in 14 batches. How many **copies** per batch?

Answer: _____

10 157 ÷ 4 = 39 R1. **Explain** when to keep **R1** and when to round up

Answer: _____

DID YOU KNOW?

Did you know? Listing **multiples** first makes two-digit division much quicker and cuts guessing.

CHALLENGE TIME!

Can you invent a 4-digit by 2-digit division with a **zero** in the quotient? Tell a partner.

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CHECK AND SORT

Check divisions by multiplication and sort remainders.

TASK D

/4

Complete these checks on squared paper.

1

		3	9
×		1	2

2

		7	8
×		1	2

3

	1	5	4
×		1	2

4

	3	0	8
×		1	4

TASK E

Example done for you

/5

Sort these leftovers into the correct column.

~~spare pencils~~ | spares that cannot be split | leftover counters | full boxes needed | rows for all pupils | extra bus seats

Keep as remainder	Round up
spare pencils	

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MULTIPLES AND METHODS

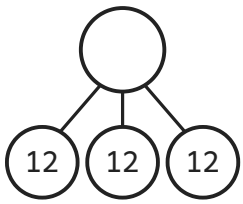
Build multiples and study worked long division.

TASK F

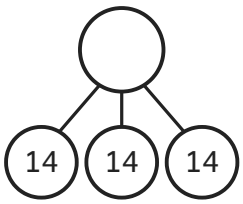
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Add the multiples to find each whole.

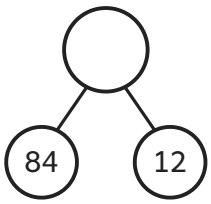
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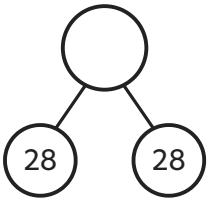
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3



4



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LONG DIVISION MASTERS

TASK G

/2

Study the method, then try the next one.

WORKED EXAMPLE

Work out 468 ÷ 12

1. Write 468 inside, 12 outside. List **multiples** of 12.
2. 12 into 46 goes 3 times: 3 × 12 = 36. 46 − 36 = 10.
3. Bring down 8 to make 108. 9 × 12 = 108. 108 − 108 = 0.
4. Answer 39. Check 39 × 12 = 468.

Answer: 39

YOUR TURN

Work out 936 ÷ 12

Answer: _____

WORKED EXAMPLE

Work out 252 ÷ 14

1. Write 252 inside, 14 outside. List **multiples** of 14.
2. 14 into 25 goes once: 1 × 14 = 14. 25 − 14 = 11.
3. Bring down 2 to make 112. 8 × 14 = 112. 112 − 112 = 0.
4. Answer 18. Check 18 × 14 = 252.

Answer: 18

YOUR TURN

Work out 336 ÷ 14

Answer: _____

HOW DID I DO?

Circle a face for each line.

I can divide 4-digit numbers by a two-digit number.

I can line up digits neatly and check by multiplication.

I can explain a remainder as a remainder, fraction or rounding.

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Answer sheet: Long Division Masters

Task A

1. 1872: 1 | 8 | 7 | 2
2. 2496: 2 | 4 | 9 | 6
3. 3744: 3 | 7 | 4 | 4
4. 1508: 1 | 5 | 0 | 8

Task B

1. 39
2. 17
3. 78
4. 31
5. 152
6. 208
7. 168
8. 154
9. 234
10. 208 x 12 = 2496 so it checks. Zero holds place value because 12 does not fit into 9.

Task C

1. 24
2. 30
3. 26
4. 96
5. 156
6. 308
7. 143
8. 180
9. 220
10. Keep R1 for spares that cannot be split. Round up to 40 when you need enough boxes or seats for everyone.

Task D

1. 39 × 12 = 468
2. 78 × 12 = 936
3. 154 × 12 = 1848
4. 308 × 14 = 4312

Task E

Keep as remainder: spare pencils, leftover counters, spares that cannot be split
Round up: full boxes needed, extra bus seats, rows for all pupils

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Task F

1. 36 (36 = 12 + 12 + 12)
2. 42 (42 = 14 + 14 + 14)
3. 96 (96 = 84 + 12)
4. 56 (56 = 28 + 28)

Task G

1. 78
2. 24

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