

Boost Free Lessons - Year 5 Maths

Lesson 8: Short Division

Name: _____ Grade: _____ Date: _____

Worked Example 1

Work out $852 \div 4$.

$$\begin{array}{r} 213 \\ 4 \overline{) 852} \end{array}$$

1. Set it out as short division, working from the **left**.
2. 4 into 8 goes 2 times exactly. Write 2 above the 8.
3. 4 into 5 goes 1 time with 1 left over. Write 1 above the 5 and carry the 1 to the next digit.
4. That makes 12. 4 into 12 goes 3 times exactly.

$852 \div 4 = 213$

Worked Example 2

Work out $738 \div 6$.

$$\begin{array}{r} 123 \\ 6 \overline{) 738} \end{array}$$

1. 6 into 7 goes 1 time with 1 left over. Write 1 and carry the 1.
2. That makes 13. 6 into 13 goes 2 times with 1 left over. Write 2 and carry the 1.
3. That makes 18. 6 into 18 goes 3 times exactly.
4. Check by multiplying back: $123 \times 6 = 738$.

$738 \div 6 = 123$

Remember: Work from the **left**. Divide, write the answer above, then carry any remainder to the next digit. Always check by multiplying your answer back.



Question 1: Work out the following.

1. $486 \div 2$

2. $639 \div 3$

3. $824 \div 4$

4. $745 \div 5$

5. $918 \div 6$

6. $861 \div 7$

7. $976 \div 8$

8. $837 \div 9$



Question 2: Answer the following.

1. Work out $2\,484 \div 4$.

2. Work out $3\,255 \div 5$.

3. Work out $4\,872 \div 6$.

4. Check $966 \div 7 = 138$ by multiplying.

5. Estimate $3\,950 \div 5$ by rounding to the nearest thousand.

6. Which is larger: $720 \div 8$ or $810 \div 9$?



Question 3: Answer the following questions.

1. 576 stickers are shared equally between 4 classes. How many each?
2. A farmer packs 945 eggs into trays of 7. How many trays?
3. \$1 464 is shared equally between 6 people. How much each?
4. A bus travels 2 136 km in 8 days, the same distance each day. How far per day?
5. Check your answer to question 4 by multiplying it back.



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Answers: Short Division**Question 1**

1. 243
2. 213
3. 206
4. 149
5. 153
6. 123
7. 122
8. 93

Question 2

1. 621
2. 651
3. 812
4. $138 \times 7 = 966$ (correct)
5. 800
6. They are equal, both 90

Question 3

1. 144 stickers
2. 135 trays
3. \$244
4. 267 km
5. $267 \times 8 = 2\,136$ (correct)

