

Y6 Decimal Answers Rounding

KS2 Y6 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

593 ÷ 16. Give the answer to 2 decimal places.

Step 1 · $59 \div 16 = 3 \text{ r } 11$; $113 \div 16 = 7 \text{ r } 1$
37 r 1

Step 2 · Write 593.000. Bring down 0: $10 \div 16$
0 r 10 (tenths digit 0)

Step 3 · $100 \div 16$
6 r 4 (hundredths digit 6)

Step 4 · $40 \div 16$
2 r 8 (thousandths digit 2)

Step 5 · 37.062... to 2 d.p.: the third digit is 2, so round down
37.06

Answer: 37.06

Check: $37.06 \times 16 = 592.96$, very close to 593 ✓

2. Now try one with the steps

1,000 ÷ 12 to 2 decimal places.

Step 1 · $1,000 \div 12$

Step 2 · $40 \div 12 = 3 \text{ r } 4$, and it repeats

Step 3 · Third decimal digit is 3, so round down

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. $23 \div 4$. Give the answer decimal.

2. $541 \div 20$. Give the answer decimal.

3. $2,000 \div 32$. Give the answer decimal.

4. $37 \div 8$ to 2 decimal places.

5. $100 \div 6$ to 2 decimal places.

6. $830 \div 16$ to 2 decimal places.

7. Round 3.456 to 1 decimal place.

8. Round 0.849 to the nearest tenth.

9. $4,321 \div 15$ to 2 decimal places.

10. Round 12.995 to 2 decimal places.

11. £25 is shared equally between 3 people. How much does each get, to the nearest penny?

12. A 10 m rope is cut into 7 equal pieces. How long is each piece, to 2 decimal places?

13. A pack of 12 pens costs £5. How much is one pen, to the nearest penny?

14. Which is the better buy: 6 toilet rolls for £2.70, or 4 for £1.85? Show the price of one roll for each.

15. Seven friends share a £60 restaurant bill equally. How much should each pay, to the nearest penny? Will that cover the bill exactly?

4. Before you hand it in

Writing $593 \div 16 = 37 \text{ r } 1$ as 37.1.

r 1 means 1 out of 16, which is 0.0625. Keep dividing with zeros: $37.0625 \rightarrow 37.06$.

Forgetting the 0 in 37.06 and writing 37.6.

$10 \div 16 = 0$, so the tenths digit is 0. Write it.

Rounding 12.995 to 2 decimal places as 12.10 or 12.99.

12.99|5: round the hundredths up, $12.99 + 0.01 = 13.00$. Keep both decimal places to show the accuracy.