Fractions, decimals and percentages

Name: _____ Date: _____



Mr Boston says: To add fractions, make the bottoms (denominators) the same first: 1/3 + 1/4 = 4/12 + 3/12 = 7/12.

A. Converting and simplifying

1 Write 1/8 as a decimal and a percentage.

Answer: _____

2 Write 3/4 as a decimal and a percentage.

Answer: _____

3 Write 2/5 as a decimal and a percentage.

Answer: _____

4 Simplify 12/18.

Answer: _____

5 Simplify 12/16.

Answer: _____

6 Simplify 12/15.

Answer: _____

B. Fractions and percentages of amounts

7 Find 1/4 of 16.

Answer: _____

8 Find 3/5 of 25.

Answer: _____

9 Find 5/8 of 120.

Answer: _____

10 Find 20% of £120.

Answer: _____

11 Find 35% of £200.

Answer: _____

12 Find 75% of £320.

Answer: _____

C. Calculating

13 Work out 1/3 + 1/4.

Answer: _____

14 Work out 5/6 − 1/3.

Answer: _____

15 Work out 2/3 × 3/5.

Answer: _____

16 A £45 coat is reduced by 20%. What is the sale price?

Answer: _____

17 A £150 bike goes up in price by 8%. What is the new price?

Answer: _____

18 In a test Tayo scores 42 out of 60. What percentage is this?

Answer: _____

Answers for grown-ups

Fractions, decimals and percentages

1. Write 1/8 as a decimal and a percentage. → **0.125 and 12.5%**
2. Write 3/4 as a decimal and a percentage. → **0.75 and 75%**
3. Write 2/5 as a decimal and a percentage. → **0.4 and 40%**
4. Simplify 12/18. → **2/3**
5. Simplify 12/16. → **3/4**
6. Simplify 12/15. → **4/5**
7. Find 1/4 of 16. → **4**
8. Find 3/5 of 25. → **15**
9. Find 5/8 of 120. → **75**
10. Find 20% of £120. → **£24.00**
11. Find 35% of £200. → **£70.00**
12. Find 75% of £320. → **£240.00**
13. Work out 1/3 + 1/4. → **7/12**
14. Work out 5/6 − 1/3. → **1/2**
15. Work out 2/3 × 3/5. → **2/5**
16. A £45 coat is reduced by 20%. What is the sale price? → **£36.00**
17. A £150 bike goes up in price by 8%. What is the new price? → **£162.00**
18. In a test Tayo scores 42 out of 60. What percentage is this? → **70%**