Multiple choice questions - Fractions, decimals and percentages

Year: Year 8 · 10

Question 1 What is $\frac{3}{4}$ as a percentage?

- ◯ **A.** 34%
- ◯ **B.** 75%
- ◯ **C.** 60%
- ◯ **D.** 43%

Question 2 What is 0.08 as a percentage?

- ◯ **A.** 80%
- ◯ **B.** 0.8%
- ◯ **C.** 8%
- ◯ **D.** 0.08%

Question 3 Which fraction equals 35%?

- ◯ **A.** $\frac{7}{20}$
- ◯ **B.** $\frac{3}{5}$
- ◯ **C.** $\frac{35}{10}$
- ◯ **D.** $\frac{3}{50}$

Question 4 Find 20% of 150.

- ◯ **A.** 20
- ◯ **B.** 30
- ◯ **C.** 15
- ◯ **D.** 75

Question 5 What is the multiplier for a 12% decrease?

- ◯ **A.** 1.12
- ◯ **B.** 0.12
- ◯ **C.** 0.88
- ◯ **D.** 12

Question 6 A £50 jacket rises by 10%. New price?

- ◯ **A.** £55
- ◯ **B.** £60
- ◯ **C.** £45

- ◯ **D.** £51

Question 7 Which is the smallest?

- ◯ **A.** 0.45
- ◯ **B.** $\frac{2}{5}$
- ◯ **C.** 42%
- ◯ **D.** $\frac{3}{8}$

Question 8 Express 15 out of 60 as a percentage.

- ◯ **A.** 15%
- ◯ **B.** 25%
- ◯ **C.** 40%
- ◯ **D.** 4%

Question 9 A price rises from £20 to £25. Percentage increase?

- ◯ **A.** 5%
- ◯ **B.** 20%
- ◯ **C.** 25%
- ◯ **D.** 125%

Question 10 Which decimal is recurring?

- ◯ **A.** $\frac{3}{20}$
- ◯ **B.** $\frac{5}{16}$
- ◯ **C.** $\frac{2}{3}$
- ◯ **D.** $\frac{9}{25}$

Answer grid - Fractions, decimals and percentages

Year: Year 8

Question	Answer	Explanation
1	**B**	$3 \div 4 = 0.75 = 75\%$.
2	**C**	Multiply by 100: 8%.
3	**A**	$\frac{35}{100} = \frac{7}{20}$.
4	**B**	10% = 15, so 20% = 30.
5	**C**	100% - 12% = 88% = 0.88.
6	**A**	$50 \times 1.1 = 55$.
7	**D**	Decimals: 0.45, 0.4, 0.42, 0.375. The smallest is 0.375.
8	**B**	$\frac{15}{60} = \frac{1}{4} = 25\%$.
9	**C**	Change 5, $\frac{5}{20} = 25\%$.
10	**C**	Only $\frac{2}{3}$ has a denominator with a prime factor other than 2 or 5.