Multiple choice questions - Problem solving and GCSE exam practice

Year: Year 11 · 10

Question 1 What percentage of GCSE marks are for problem solving (AO3)?

- ◯ **A.** about 10%
- ◯ **B.** about 25%
- ◯ **C.** about 50%
- ◯ **D.** about 75%

Question 2 A coat reduced by 15% then 10% is the same as a single reduction of

- ◯ **A.** 25%
- ◯ **B.** 23.5%
- ◯ **C.** 24%
- ◯ **D.** 22%

Question 3 To 'show that' means you must

- ◯ **A.** only give the answer
- ◯ **B.** give every step to reach the given result
- ◯ **C.** guess
- ◯ **D.** draw a graph

Question 4 Share 40 in the ratio 3:5. The larger share is

- ◯ **A.** 15
- ◯ **B.** 20
- ◯ **C.** 25
- ◯ **D.** 24

Question 5 Solve $2x + 5 = 17$.

- ◯ **A.** $x = 6$
- ◯ **B.** $x = 11$
- ◯ **C.** $x = 12$
- ◯ **D.** $x = 22$

Question 6 The exterior angle of a regular polygon is 40. The number of sides is

- ◯ **A.** 8
- ◯ **B.** 9
- ◯ **C.** 10

- ◯ **D.** 12

Question 7 Prove: n + (n+1) + (n+2) =

- ◯ **A.** 3n + 2
- ◯ **B.** 3n + 3
- ◯ **C.** 3n + 1
- ◯ **D.** 3n

Question 8 Estimate 4.9 x 6.1 by rounding to 1 significant figure:

- ◯ **A.** 24
- ◯ **B.** 30
- ◯ **C.** 35
- ◯ **D.** 25

Question 9 An answer to 3 significant figures: 4.0567 becomes

- ◯ **A.** 4.05
- ◯ **B.** 4.06
- ◯ **C.** 4.057
- ◯ **D.** 4.1

Question 10 When you are stuck in an exam you should

- ◯ **A.** leave it blank
- ◯ **B.** draw a diagram and write down what you know
- ◯ **C.** stop
- ◯ **D.** guess at random without working

Answer grid - Problem solving and GCSE exam practice

Year: Year 11

Question	Answer	Explanation
1	**B**	Roughly a quarter.
2	**B**	0.85 x 0.9 = 0.765.
3	**B**	Full working.
4	**C**	40/8 = 5 per part.
5	**A**	2x=12.
6	**B**	360/40.
7	**B**	Collect terms.
8	**B**	5 x 6.
9	**B**	Third figure rounds up.
10	**B**	Method marks.