Multiple choice questions - Place value, ordering and rounding

Year: Year 7 · 10

Question 1 What is the value of the digit 5 in 3.052?

- ◯ **A.** 0.05
- ◯ **B.** 5
- ◯ **C.** 0.5
- ◯ **D.** 0.005

Question 2 Which is the largest number?

- ◯ **A.** 0.07
- ◯ **B.** 0.7
- ◯ **C.** 0.699
- ◯ **D.** 0.0777

Question 3 Work out 3.6×100.

- ◯ **A.** 36
- ◯ **B.** 3 600
- ◯ **C.** 360
- ◯ **D.** 0.036

Question 4 Round 6 849 to the nearest hundred.

- ◯ **A.** 6 900
- ◯ **B.** 6 850
- ◯ **C.** 7 000
- ◯ **D.** 6 800

Question 5 Round 9.972 to 2 d.p.

- ◯ **A.** 9.97
- ◯ **B.** 9.98
- ◯ **C.** 10.00
- ◯ **D.** 9.9

Question 6 Round 0.0306 to 1 s.f.

- ◯ **A.** 0.3
- ◯ **B.** 0.03
- ◯ **C.** 0.031

- ◯ **D.** 0.04

Question 7 Which is the best estimate of 19.8×4.1?

- ◯ **A.** 8
- ◯ **B.** 800
- ◯ **C.** 80
- ◯ **D.** 100

Question 8 Round 15 449 to 3 s.f.

- ◯ **A.** 15 500
- ◯ **B.** 15 450
- ◯ **C.** 15 000
- ◯ **D.** 15 400

Question 9 What is $47 \div 1000$?

- ◯ **A.** 0.047
- ◯ **B.** 0.47
- ◯ **C.** 4.7
- ◯ **D.** 0.0047

Question 10 Which list is in order, smallest first?

- ◯ **A.** $0, -2, -7, 3$
- ◯ **B.** $-7, -2, 0, 3$
- ◯ **C.** $3, 0, -2, -7$
- ◯ **D.** $-2, -7, 0, 3$

Answer grid - Place value, ordering and rounding

Year: Year 7

Question	Answer	Explanation
1	**A**	The 5 is in the hundredths column, so its value is 0.05.
2	**B**	Write with 4 d.p.: 0.7000 is bigger than 0.6990, 0.0777 and 0.0700.
3	**C**	Each digit moves two places to the left, giving 360.
4	**D**	The tens digit is 4, so round down to 6 800.
5	**A**	The third decimal digit is 2, so round down: 9.97.
6	**B**	The first significant figure is 3 and the next digit is 0, so round down to 0.03.
7	**C**	Round to 20 and 4: 20 times 4 equals 80.
8	**D**	The first three significant figures are 1, 5, 4. The next digit is 4, so round down to 15 400.
9	**A**	Dividing by 1000 moves the digits three places right: 0.047.
10	**B**	On the number line -7 is furthest left, then -2, then 0, then 3.