1.3 Number: Standard Form and Rounding: 10-minute Pack

Calculator allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The number 5.6789 is given.

(a) Round 5.6789 to 1 decimal place. **(1)**

(b) Round 5.6789 to 2 decimal places. **(1)**

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2 By rounding each number to 1 significant figure, estimate the value of (398 x 5.2) / 19.8.
You must show your rounded values.

(2)

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3 Write these numbers in standard form:

(a) 480000 **(1)**

(b) 0.00072 **(1)**

(c) 6030000 **(1)**

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4 Standard form must have a single digit from 1 to 9 before the decimal point.

(a) Which of the following correctly represents 4500 in standard form? **(1)**

- ☐ A) 45×10^2
- ☐ B) 4.5×10^3
- ☐ C) 0.45×10^4
- ☐ D) 4.5×10^2

(b) Rewrite 45×10^2 correctly in standard form. **(1)**

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Mark scheme · 1.3 Number: Standard Form and Rounding: 10-minute Pack

Question 1

(a) 5.7 cao — **B1**

(a) Answer: **5.7**

(b) 5.68 cao — **B1**

(b) Answer: **5.68**

Question 2

correctly rounds all three values to 1 sf: 400, 5, 20 (oe) — **M1**

100 cao, from (400 x 5) / 20 — **A1**

Answer: **100**

Question 3

(a) 4.8×10^5 cao — **B1**

(a) Answer: **4.8×10^5**

(b) 7.2×10^{-4} cao — **B1**

(b) Answer: **7.2×10^{-4}**

(c) 6.03×10^6 cao — **B1**

(c) Answer: **6.03×10^6**

Question 4

(a) selects B — **B1**

(a) Answer: **B (4.5×10^3)**

(b) 4.5×10^3 cao — **B1**

(b) Answer: **4.5×10^3**

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