



Answer Key for significant figures QUIZ from Ch. 6

Student book

Exercise 6D

- 1 a 400 b 8000 c 400 d 50 e 5
f 90 000 g 10 000 h 0.003 i 7
- 2 a true b false c true
- 3 a 960 b 490 c 6200 d 18 000 e 17
f 27 g 0.0039 h 130 i 8.0

4

Number	613 752	1.6831	0.004 753
3 s.f.	614 000	1.68	0.004 75
2 s.f.	610 000	1.7	0.0048
1 s.f.	600 000	2	0.005

- 5 a 0.004 66 b 0.02 c 0.000 22 d 0.40
- 6 a i, ii, v
b iii 800 000 iv 0.04 vi 900
- 7 a 80 000 b 83 000 c 82 700 d 82 740
- 8 a 0.004 b 0.0036 c 0.003 57 d 0.003 565
- 9,10 Students' own answers
- 11 a 8 135 000 b 8 130 000 c 8 100 000 d 8 000 000
- 12 a The theatre would sell 960 tickets, which is more than they have seats.
b It would say 15 tonnes which is too heavy for the bridge.
- 13 a 5499 b 4500
- 14 a 0.0742 b 0.07 c 0.07
- 15 a 0.04 b 0.0362

Homework book

6D-6E

1 a 60 b 300 c 5 d 10 000
e 0.0002 f 70

2 a 980 b 600 c 5400 d 37
e 0.0020 f 6.0

3

Number	457213	5.8612	0.004851
3 s.f.	457 000	5.86	0.00485
2 s.f.	460 000	5.9	0.0049
1 s.f.	500 000	6	0.005

4 a 7 244 000 b 7 240 000 c 7 200 000 d 7 000 000

5 a 14 999 b 9500

6 a 0.1 $\dot{8}$ b 0.5 $\dot{7}$ 142 $\dot{8}$ c 0.5

7 2300 cm³ (using the same accuracy as the least accurate number in the question, 2 s.f.)

