

Grade 7 Answer key for lesson 4.2+ 4.3

Exercise 4.2

1 **a** -0.8 **b** 0.6 **c** -2.1
 d 5.6 **e** -3.6

2 **a** -0.18 **b** -1.8
 c -0.018 **d** -18

3 C -7.65 , E -7.28 , A -7.2 , D -7.04 , B -7.02

4 learners' answers

5 **a** **i** $2 \times 4 = 8$
 $0.2 \times 4 = 0.8$
 $0.2 \times 0.4 = 0.08$
 $0.2 \times 0.04 = 0.008$
 $0.2 \times 0.004 = 0.0008$

ii $3 \times 5 = 15$

$0.3 \times 5 = 1.5$

$0.3 \times 0.5 = 0.15$

$0.3 \times 0.05 = 0.015$

$0.3 \times 0.005 = 0.0015$

b i 0.009

ii 0.48

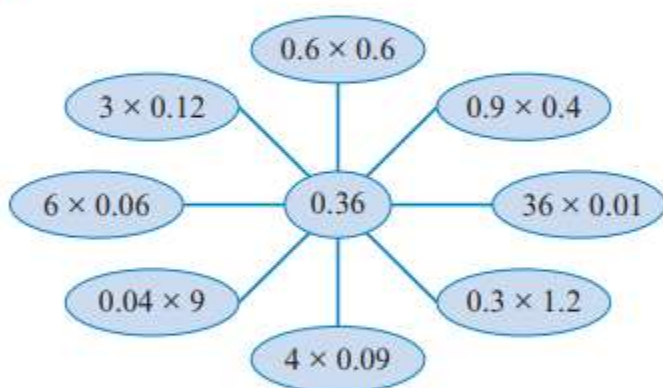
iii 0.028

iv 0.0015

v 0.036

vi 0.0066

6



7 a i 365.4

ii 36.54

iii 365.4

iv 36.54

b, c learners' answers

8 a $158 \times 46 = 7268$

b i 726.8

ii 726.8

iii 72.68

iv 7.268

v 7.268

vi 0.07268

9 learners' answers

- 10 a** 62.98 Estimate: $7 \times 9 = 63$
b 4.648 Estimate: $0.6 \times 8 = 4.8$
c 1.8745 Estimate: $0.2 \times 8 = 1.6$
d 0.175 26 Estimate: $0.7 \times 0.3 = 0.21$
- 11 a** Estimate: $0.5 \times 3 = 1.5$. Her answer of 12.6 must be wrong.
b Estimate: $8 \times 0.009 = 0.072$. Her answer of 0.072 54 could be correct.
c Estimate: $0.07 \times 0.04 = 0.0028$. Her answer of 0.027 95 must be wrong.
- 12 a** $6 \times 7 = 42$ mg **b** 42.34 mg
- 13 a** $1 \times 4 = 4$ g **b** 3.255 g

Exercise 4.3

- 1 **a** $\frac{24}{4} = 6$ **b** $\frac{72}{9} = 8$
c $-\frac{420}{6} = -70$ **d** $-\frac{450}{5} = -90$
- 2 D because the answer is 8. All the others have an answer of 7.
- 3 learners' answers
- 4 **a** 2.3 **b** 8.2
c -860 **d** -960
- 5 \$1.35 per metre
- 6 learners' answers
- 7 **a** Estimate: $30 \div 0.3 = 100$
Accurate: $27.6 \div 0.3 = 92$
b Estimate: $-200 \div 0.4 = -500$
Accurate: $-232 \div 0.4 = -580$
c Estimate: $300 \div 1 = 300$
Accurate: $306 \div 0.9 = 340$
d Estimate: $-490 \div 0.7 = -700$
Accurate: $-483 \div 0.7 = 690$
e Estimate: $40 \div 0.8 = 50$
Accurate: $43.76 \div 0.8 = 54.7$
f Estimate: $-30\,000 \div 0.6 = -50\,000$
Accurate: $-33\,972 \div 0.6 = -56\,620$
- 8 **a** She hasn't written down the 0 above the 6.
b 42.05
- 9 **a** Carried on the division by writing a decimal point after the 7, then carrying the remainder of 9 onto the zero in the tenths column.

b 256.5

10 a

1	2	3	4	5	6	7	8	9
19	38	57	76	95	114	133	152	171

b 31.25

c $30 \times 2 = 60$

11 a

1	2	3	4	5	6	7	8	9
25	50	75	100	125	150	175	200	225

b \$23.56

c $\$23.56 \approx 20$ and $20 \times 2.5 = 50$

12 14.75m

13 a i 425

ii 27

iii 4250

iv 270

b learners' answers

c i 425

ii 42.5

iii 4.25

iv 0.425

d learners' answers

e peer discussion