

SKE Primary: Foundation Strand**Answers to Exercises****Unit 6 Decimals: Multiplication and Division****6.1 Multiplication of Whole Numbers**

1. (a) 6 (b) 35 (c) 18 (d) 21 (e) 20
(f) 18 (g) 40 (h) 36 (i) 36 (j) 56
(k) 72 (l) 63 (m) 42 (n) 81 (o) 48
2. (a) True (b) False (c) False (d) True
3. (a) £20 (b) 6 months
4. 18 bottles
5. £12
6. 42 tiles
7. 72 packets
8. 24 cars
9. 25 cars
10. 63 windows

6.2 Long Multiplication

1. (a) 126 (b) 280 (c) 132 (d) 387 (e) 744 (f) 480 (g) 1848 (h) 912
(i) 1116 (j) 2666 (k) 7224 (l) 35 958 (m) 35 328 (n) 161 504 (o) 35 568
2. (a) 1554 (b) 5022 (c) 1302 (d) 1161 (e) 2378
(f) 1748 (g) 2109 (h) 1421 (i) 924
3. (a) 180 (b) 672 (c) 3738 (d) 2565 (e) 5642 (f) 47 936

6.3 Multiplying with Decimals

1. (a) 2.4 (b) 3.5 (c) 7.8 (d) 10.8 (e) 9.0 (f) 63.2
(g) 6.72 (h) 40.32 (i) 17.64 (j) 16.56 (k) 7.44
(l) 109.5 (m) 206.8 (n) 440.2 (o) 392.2
2. (a) 60 (b) 7 (c) 1 220 (d) 1 120 (e) 32 (f) 6 200
(g) 1470 (h) 184.1 (i) 36 500 (j) 7 200 000
3. (a) 3.952 (b) 36.075 (c) 21.1698
(d) 37.3584 (e) 123.971 (f) 15.087

Answers to Exercises

6.4 Problems Involving Multiplication

1. £252
2. 192 bars
3. 416 seats
4. 768 bottles
5. £1120
6. 216 slabs
7. £12.90
8. £15.24
9. £18.98
10. £12.80
11. £39.92
12. £7.81 to the nearest penny
13. £2.54 to the nearest penny
14. $365 \times 260 = 94\,900$ (ordinary year)
 $366 \times 260 = 95\,160$ (leap year)
 $5 \times 52 \times 260 = 67\,600$ (5 days a week, 52 weeks per year)
Other variations are possible

6.5 BODMAS

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|----|-----------|-----------|----------|----------|
| 1. | (a) 4 | (b) 2 | (c) 3 | (d) 5 |
| | (e) 2 | (f) 5 | (g) 4 | (h) 5 |
| | (i) 8 | (j) 6 | (k) 4 | (l) 4 |
| | (m) 7 | (n) 7 | (o) 9 | |
| 2. | (a) False | (b) False | (c) True | (d) True |
| 3. | (a) 35 | (b) 26 | (c) 44 | (d) 11 |
| | (e) 1 | (f) 15 | (g) 8 | (h) 13 |
| | (i) 9 | (j) 8 | (k) 31 | (l) 39 |
| 4. | (a) 125 | (b) 13 | (c) 17 | (d) 32 |
| | (e) 56 | (f) 13 | (g) 5 | (h) 7 |
| | (i) 16 | | | |

6.5

Answers to Exercises

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5. (a) 20 (b) 2 (c) 7 (d) 9 (e) 25
(f) 35 (g) 61 (h) 15 (i) 25 (j) 9
6. (a) T (b) F, 35 (c) F, 21 (d) F, 24
(e) F, 7 (f) T (g) F, 46 (h) F, 56
7. (a) $3 \times (6 + 1) = 21$ (b) $(5 + 6) \times 2 = 22$ (c) $45 \div (6 + 3) = 5$
(d) $49 - (3 + 2) = 44$ (e) $7 \times (3 + 2) = 35$ (f) $(13 - 4) \times 2 = 18$
8. (a) 5 (b) 6 (c) 6 (d) 3
(e) 2 (f) 12
9. (a) Jane has forgotten to use brackets. Correct answer is 34.
(b) $(4 \times 7 + 2) \times 3 = 90$
10. (a) No (b) $30 \div 6 - (3 + 1) = 1$ (c) $30 \div (6 - 3) + 1 = 11$
11. (a) T (b) T (c) F (d) F

6.6 Division Methods for Whole Numbers and Decimals

1. (a) 1.2 (b) 420 (c) 60 000 (d) 371.4
(e) 572.8 (f) 60 (g) 7 (h) 750
(i) 7.5 (j) 37.14 (k) 84.12 (l) 64.213
2. (a) 23 (b) 505 (c) 2204 (d) 421
(e) 1234 (f) 7410 (g) 184 (h) 562
(i) 56 (j) 234 (k) 238 (l) 256
3. (a) 1.27 (b) 7.21 (c) 2.56 (d) 17.5
(e) 131.2 (f) 12.31 (g) 25.9 (h) 10.32
(i) 119.14
4. (a) 5.25 (b) 40.5 (c) 40.5 (d) 65.75
(e) 10.5 (f) 30.125

6.7 Division Problems

1. 9 bars
2. 31 cars
3. 48 passengers
4. £ 5
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6.7

Answers to Exercises

- 5. £ 125.23
- 6. £ 9.25
- 7. 6 sweets
- 8. £ 5
- 9. £ 9
- 10. 5.62 m
- 11. 162 g
- 12. £1.37 with 2p left over
- 13. 4 minibuses
- 14. 8 bars
- 15. 5 times
- 16. (a) 6 lumps (b) 30 g
- 17. (a) 5 tapes (b) 75p
- 18. 19 books