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1. 341·18 m
2. 1373·9 m
3. 1176·5 m
4. 1267·8 m
5. £284·51
6. £260
7. £605·88
8. £356·44

Think. 1 209 600 mm or 1209·6 m (or 1·2096 km)

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1. 57·38 m × 24 = 1377·12 m
2. 17·43 m × 28 = 488·04 m
3. 46·37 m × 26 = 1205·62 m
4. £75·22 × 32 = £2407·04
5. £69·37 × 34 = £2358·58
6. £35·27 × 29 = £1022·83
7. 11·13 × 38 = 422·94
8. 38·42 × 39 = 1498·38
9. 78·47 × 36 = 2824·92
10. 59·47 × 33 = 1962·51
11. 39·53 × 37 = 1462·61
12. 55·55 × 28 = 1555·4
13. 37·73 × 37 = 1396·01
14. 89·47 × 45 = 4026·15

Think. It is true, provided the number it is multiplied by is a whole number.

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1. a) 406 = 29, 16 $\frac{22}{24}$ or 16 $\frac{11}{12}$
   b) 336 = 24, 14
   c) 168 = 12, 7
   d) 392 = 28, 16 $\frac{8}{24}$ or 16 $\frac{1}{3}$
   e) 280 = 20, 11 $\frac{16}{24}$ or 11 $\frac{2}{3}$
2. 14
3. 15
4. 21
5. 23
6. 25
7. 41 $\frac{2}{14}$ or 41 $\frac{1}{7}$

Think. Answers will vary, for example, 624 ÷ 26 = 24.

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1. a) 272 $\frac{8}{17}$ b) 421 $\frac{1}{17}$ c) 160 $\frac{9}{17}$
   d) 202 $\frac{11}{17}$ e) 528 f) 149 $\frac{1}{7}$
2. a) 201 $\frac{9}{23}$ b) 311 $\frac{5}{23}$ c) 118 $\frac{15}{23}$
   d) 149 $\frac{18}{23}$ e) 390 $\frac{6}{23}$ f) 110 $\frac{4}{23}$
3. a) 165 $\frac{12}{28}$ or 165 $\frac{3}{7}$
   b) 255 $\frac{18}{28}$ or 255 $\frac{9}{14}$
   c) 97 $\frac{13}{28}$ d) 123 $\frac{1}{28}$
   e) 320 $\frac{16}{28}$ or 320 $\frac{4}{7}$
   f) 90 $\frac{14}{28}$ or 90 $\frac{1}{2}$

Think. Answers will vary, for example, 9375 ÷ 25 = 375.

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1. 4637 ÷ 27 = 171 $\frac{20}{27}$
2. 7522 ÷ 31 = 242 $\frac{20}{31}$
3. 1748 ÷ 23 = 76
4. 5738 ÷ 38 = 151
5. 6937 ÷ 32 = 216 $\frac{25}{32}$
6. 1743 ÷ 24 = 72 $\frac{5}{8}$
7. 3842 ÷ 26 = 147 $\frac{10}{13}$
8. 7847 ÷ 36 = 217 $\frac{35}{36}$
9. 5739 ÷ 37 = 155 $\frac{4}{37}$
10. 3527 ÷ 29 = 121 $\frac{18}{29}$
11. 17947 ÷ 34 = 233 $\frac{25}{34}$
12. 1113 ÷ 28 = 39 $\frac{3}{4}$
13. 6213 ÷ 29 = 214 $\frac{1}{2}$
14. 5708 ÷ 19 = 300 $\frac{8}{19}$
15. 151 runs
16. 169 $\frac{6}{27}$ each. Or 175 for Olivia and 169 for the other children.

Think. 90 years

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1. 5392 ÷ 24 = 224 $\frac{2}{3}$
2. 6948 ÷ 23 = 302 $\frac{2}{23}$
3. 1634 ÷ 26 = 62 $\frac{11}{13}$
4. 2153 ÷ 27 = 79 $\frac{20}{27}$
5. 4616 ÷ 29 = 159 $\frac{5}{29}$
6. 6.5738 ÷ 28 = 204 $\frac{13}{14}$
7. 283 pounds
8. 241 crates
9. 194 matches
10. 512 stone

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1. ×2 +1, 401; answers will vary.
2. ×10 –1, 29; answers will vary.
3. ×3 +2, 20; answers will vary.

Think. Answers will vary.

Page 93

1. the third function machine
2. the second function machine
3. the first function machine
4. 4, 20, 8
5. 20, 10, 100, 25
6. 50, 40, 20, 10

Think. No.

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1. Multiply by 10 and add 2, 10n + 2; 100, 50, 500, 60, 2, 20
2. Multiply by 7 and subtract 3, 7n – 3; 5, 35, 56, 7, 49, 63
3. Multiply by 11 and subtract 12, 11n – 12; 110, 20, 77, 99, 6, 66
4. Answers will vary.

Think. Answers will vary.

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1. 50
2. 49
3. 93
4. 250
5. 91
6. 201
7. $2\frac{1}{2}$
8. 5·6
9. 64
10. 5.2
11. 103
12. 3·3
13. 6
14. 150

Think. Answers will vary, for example, ‘For the first sequence you would multiply 100 by 5 because the sequence goes up in 5s’, and so on.

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1. 61, 71; 101. Multiply by 10 and add 1.
2. 32, 37; 52. Multiply by 5 and add 2.
3. 59, 69; 99. Multiply by 10 and subtract 1.
4. 63, 73; 103. Multiply by 10 and add 3.
5. 2n + 3; 5, 7, 9, 11, 13, 15, 17, 19, 21, 23
6. 4n + 1; 5, 9, 13, 17, 21, 25, 29, 33, 37, 41
7. 5n – 2; 3, 8, 13, 18, 23, 28, 33, 38, 43, 48