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- 6 1. a) 0.8 b) 5 C) 8.9 d) 2.1 10 1 e) f) 3 **g)** 5.5 2.1 h)
- **2.** 978 m²
- **3.** No; -43
- **4.** $6^6 = 46\ 656$
- a) 225, 89.25, -223.94, 3 × (-22.39)
 b) 225 + 89.25 + (-223.94) + 3 × (-22.39)
 c) \$23.14
- **6.** -0.63
- 7. a)

8.

,							
	t	0	1	2	3	4	
	d	0	3	6	9	12	

- **b)** Yes, because time and distance are not discrete.
- c) The relation is linear; the graph is a straight line.
- **d**) d = 3t
- **e)** 45 m
- f) About 5.6 min
- **a)** About \$140 **b)** About 15 weeks
- c) For example, Colton may change the number of hours he works per week
- **9. a)** $-2n^2 9n + 13$ or $-10n^2 5n + 3$
- **10.** a) $6x^2 + 7x$ b) 24 cm^2
- **11. b**) *t* = 5
- **12. b)** Jerry can ride the pedicab for about 15 min.
- **13. a)** 9.4 cm by 8 cm
 - **b)** 8.225 cm by 7 cm
 - c) 16.45 cm by 14 cm
- **14.** a) $\frac{1}{40}$ b)
- 15. About 8.2 m
- **16.** a) Line symmetry about the horizontal line through 5 on the *y*-axis

0.045 m by 0.03 m

- **b)** Line symmetry about the vertical line through 4 on the *x*-axis
- **c)** Line symmetry about the line through AD; line symmetry about the line through (0, 1) and (4, 5); rotational symmetry of order 2 about the midpoint of AD
- 17. a) Yes, rotational symmetry of order 2 with an angle of 180°.
 - b) ii) 90° clockwise about (-2, -3): (-1, 1), (-1, -3), (-2, -3), (-2, -4), (-6, -4), (-6, -2), (-3, -2), (-3, 1)
 180° about Q: (-2, -2), (-2, -4), (-6, -4), (-6, -6), (-10, -6), (-10, -4), (-6, -2); rotational symmetry of order 2 around Q

- 270° clockwise about (-4, -4): (-2, -2), (-2, -4), (-4, -4), (-4, -6), (-6, -6), (-6, -2)
- **18.** About 15.0 cm
- **19.** About 10.1 cm
- **20.** $x^\circ = 250^\circ, y^\circ = 110^\circ, z^\circ = 55^\circ$
- **21.** About 18.5 cm
- **22.** About 125 cm
- **23.** $x^\circ = 65^\circ, y^\circ = 50^\circ, z^\circ = 130^\circ$
- a) The other team will be the same skill level as the previous teams.
 - b) If the other team is better than previous teams, Bao's team is more likely to lose; if the other team is worse, Bao's team is more likely to win.
- 26. a) On-line survey
 - b) Not valid, because readers of a fashion magazine would be more likely to spend money on clothing than the average person.
- **27. a)** Too time-consuming
- **b)** Too time-consuming
- **28.** a) Sample b) Census

540 ANSWERS