

Answers to most of worksheet answers from this unit are on the website scaseyjones.com.

See the homework answers link.

p. 329 #2, 6, 7, 9–15, 17–22

2. Yes. Take reciprocal of both sides.
6. a) $\frac{3}{2}$
b) $\frac{3}{1}$
c) $\frac{1}{3}$
9. Rectangle
10. a) 1:1
b) 1:2
11. a) ± 10
b) $\pm\sqrt{15}$
c) $\pm\sqrt{ab}$
12. 28 m
13. 8; 12; 20; 28
14. a) 29, 20; A. M. is greater
b) $9; 6\sqrt{2}$; A. M. is greater
15. $\frac{8}{3}$
17. 150
18. Yes
19. $\frac{c+d}{a+b}$
20. $\frac{f+h}{e-g}$
21. $\frac{x-3}{x+4}$
22. a) 756 inches or 63 feet
b) 7.25 inches
c) 15.75 inches



p. 336 #2–4, 7, 9–11, 13–15, 18

2. b and c
3. 90; 30; 7.5
4. 5
7. $\frac{5}{3}$
9. 5.6; 7.5
10. a) $\frac{3}{2}$
b) 8
c) 32
d) $\frac{3}{2}$
11. 205
13. $\frac{11}{34}$
14. 38.4 feet
15. 11 ft by 14 ft



p. 342 #6, 8, 16, 19

6. Coordinates of B are (0, 10), $BD = 26$ use distance formula and statement of proportionality for similar triangles
8. Yes by SSS
16. a) S
b) A
c) N
d) S
e) S
f) A
g) S
19. a) Yes by SAS
b) Yes; corresponding angles are congruent (because triangles are similar); therefore lines are parallel



p. 348 #7–11, 18–21

7. 4; 14

8. 8; 4; $5\frac{1}{3}$

9. 25 m

10. $\frac{3}{4}$

11. Triangles are similar by SAS; thus $\angle A \cong \angle E$, which are alternate interior angles. Therefore, $\overline{AB} \parallel \overline{DE}$.

18. $4\frac{4}{9}$

19. 12

20. $20\frac{7}{13}$

21. a) SAS

b) $\angle BDC$

c) 18



p. 354 #2–13, 20

2. $6; \frac{72}{5}$

3. $3; 9$

4. $\frac{10}{3}; 5; \frac{20}{3}$

5. 1

6. 4

7. 9

8. 24 m

9. $\frac{5}{2}; 10$

10. $\frac{45}{13}; \frac{12}{5}$

11. 51

12. $\frac{28}{5}$

13. $\frac{27}{11}; \frac{72}{11}$

20. 40



p. 361 #3–8, 10–16, 24–30

3. ± 10

4. $\pm 3\sqrt{2}$

5. $\frac{4}{9}$

6. $9; \frac{15}{2}$

7. $\frac{15}{2}$

8. 32

10. 20 m

11. 4; 15

12. $\frac{90}{13}; \frac{40}{13}; \frac{72}{13}$

13. $\frac{20}{3}$

14. 12

15. ≈ 879 ft

16. $\frac{6}{5}; 9$

24. 52

25. 30

26. $\frac{43}{5}$

27. $\frac{104}{5}$

28. 100 m; 125 m; 175 m

29. 8, 9, 12

30. 0.5 ft

