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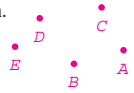
Chapter 8 Answers

Practice 8-1

1. M, N, O 2. Sample answer: Q, N, O
3. Sample answer: $\overline{MN}, \overline{MO}, \overline{NO}$
4. Sample answer: $\overline{NM}, \overline{NO}, \overline{PQ}$
5. $\overleftrightarrow{OM}$ and $\overleftrightarrow{PQ}$ 6. $\overleftrightarrow{OM}$ and $\overleftrightarrow{NP}$, $\overleftrightarrow{NP}$ and $\overleftrightarrow{PQ}$
7. Sample drawing shown.



8. Sample drawing shown.



9. sometimes 10. sometimes 11. always 12. never
13. $\overline{AB}, \overline{FC}, \overline{DE}; \overline{CD}, \overline{EB}, \overline{FA}; \overline{FE}, \overline{AD}, \overline{BC}$
14. $\overline{MN}, \overline{OP}, \overline{RS}$, and $\overline{UT}$; $\overline{MP}, \overline{NO}, \overline{RU}$, and $\overline{ST}$; $\overline{MR}$, $\overline{PU}, \overline{OT}$, and $\overline{NS}$

Practice 8-2

1. $\overrightarrow{DA}, \overrightarrow{DB}, \overrightarrow{DC}$
2. $\angle ADB$, obtuse; $\angle ADC$, obtuse; $\angle BDC$, acute
3. about 34° 4. about 58°
5. about 153° 6. about 124°
7. 8. 9. 53°, 37°, 44°, 20°, 26°



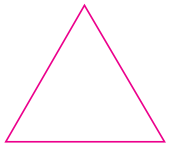
10. $\angle MSP, \angle MSQ, \angle NSQ, \angle NSR$
11. $\angle MSO, \angle RSO$ 12. $\angle MSR$
13. $\angle MSN, \angle NSO, \angle OSP, \angle PSQ, \angle QSR, \angle NSP, \angle OSQ, \angle PSR$
14. 90°, 90°, 135°, 45°

Practice 8-3

1. never 2. never 3. sometimes 4. never
5. 45° 6. 54° 7. 162° 8. 22°
9. 93° 10. 71° 11. Sample answer: $\angle 3$ and $\angle 4$
12. Sample answer: $\angle 1$ and $\angle 2$
13. Sample answer: $\angle 5$ and $\angle 6$; $\angle 7$ and $\angle 8$
14. $\overleftrightarrow{OP}$ 15. Sample answer: $\angle 1$ and $\angle 3$ 16. 28°

Practice 8-4

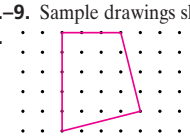
1. right, scalene 2. acute, isosceles 3. obtuse, scalene
4. isosceles 5. scalene 6. equilateral
7. scalene 8. acute 9. obtuse
10. right 11. right
12. Can't be done. A right triangle has two acute angles.
13.

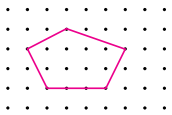


14. Can't be done. A scalene triangle has no congruent sides, so it cannot be isosceles.

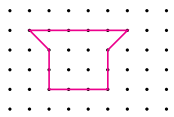
Practice 8-5

1. quadrilateral 2. hexagon 3. octagon
4. triangle 5. decagon 6. pentagon
7.–9. Sample drawings shown.
7. 8.





9.



10. a, b, c, e, f, g, h 11. b, c, e, f 12. b, e
13. e, f 14. e 15. g, h

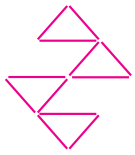
Practice 8-6

1. 48 meals 2. 2 students 3. 49 pennies 4. 16 plants
5.

	a	b	c	d
a	S	I	D	E
b	I	D	E	A
c	D	E	N	S
d	E	A	S	T

Practice 8-7

1. yes 2. no 3. no 4. no 5. no
6. yes 7. yes 8. no 9. neither
10. congruent 11. similar 12. a, f; b, h; c, g
13. Sample answer is given.

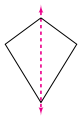
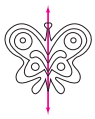
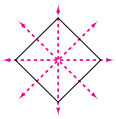
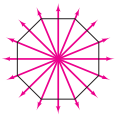
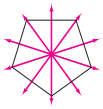
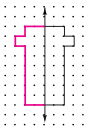
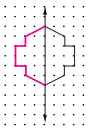
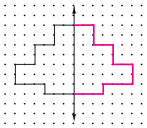
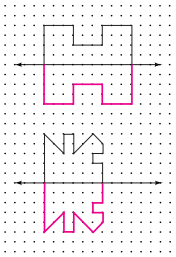
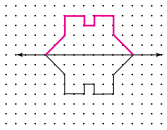


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Chapter 8 Answers (continued)

Practice 8-8

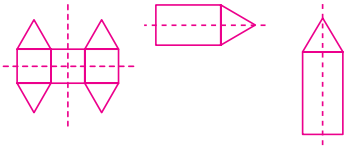
1. 
2. 
3. 
4. 
5. 
6. none
7. 
8. 
9. 
10. 
11. 
12.
13. 

14. 

15.

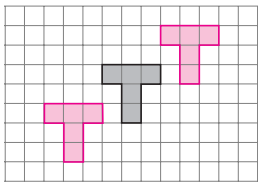
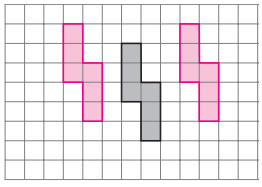
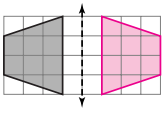
16. 

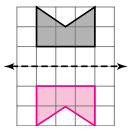
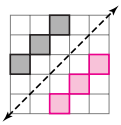
17. Sample designs shown.



Practice 8-9

1.–2. Sample answers are shown.

1. 
2. 
3. 

4. 
5. 
6. reflection
7. translation
8. reflection
9. yes; 90°
10. no
11. yes; 180°
12. no

Reteaching 8-1

1. false
2. false
3. true
4. true
5. false
6. false
7. false
8. false
9. true
10. false
11. b
12. c
13. d
14. a

Reteaching 8-2

1. obtuse
2. right
3. acute
4. right

5–8. Sample answers are given.

5. 75°
6. 90°
7. 118°
8. 60°

Reteaching 8-3

1. 55°
2. 115°
3. 90°
4. complementary
5. supplementary
6. supplementary and congruent
7. complementary
8. supplementary
9. supplementary and congruent

Reteaching 8-4

1. right
2. obtuse
3. acute
4. acute
5. right
6. acute
7. obtuse
8. acute
9. scalene
10. isosceles
11. equilateral
12. isosceles

Reteaching 8-5

1. parallelogram, rectangle, rhombus, square
2. parallelogram, rhombus
3. parallelogram, rectangle
4. trapezoid
5. quadrilateral
6. hexagon
7. octagon
8. quadrilateral
9. pentagon
10. triangle
11. hexagon
12. decagon

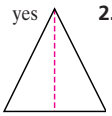
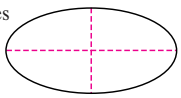
Reteaching 8-6

1. Patrick in the blue house, Tony in the white house, and Neil in the green house
2. tulips, hyacinths, daisies, daffodils, snapdragons

Reteaching 8-7

1. yes
2. no
3. no
4. b, c
5. congruent and similar
6. similar
7. similar

Reteaching 8-8

1. yes 
2. no
3. yes 

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