

Extra Practice 1

Lesson 1: Naming and Measuring Angles

1. Draw an example of each type of angle:

- a) acute b) right c) obtuse d) straight

2. Name the types of angles in each letter:

- a) b) c) d)

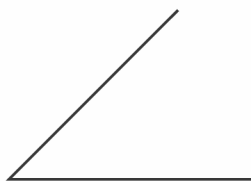


Lesson 2: Estimating and Measuring Angles

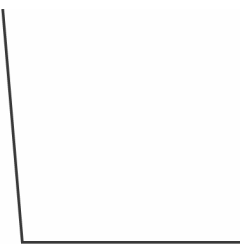
1. Measure each angle with a protractor.

Name each angle. Use the words acute, obtuse, and right.

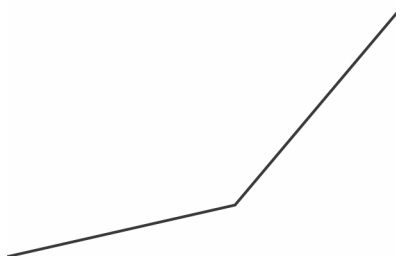
a)



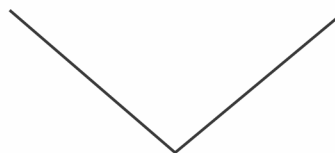
b)



c)



d)



2. Use a ruler and a protractor. Construct an angle with each measure.

- a) 15° b) 105° c) 75° d) 165°

Extra Practice 2**Lesson 3: Bisecting Angles and Line Segments**

1.
 - a) Construct an angle.
 - b) Estimate the angle measure.
 - c) Use a Mira to bisect the angle.
 - d) Measure each angle with a protractor.
 - e) How close was your estimate?

2.
 - a) Draw a 12 cm line segment.
 - b) Draw a perpendicular bisector.
 - c) Explain how you drew the perpendicular bisector.
 - d) Could you have drawn it another way? Explain.

Lesson 4: Naming and Constructing Triangles

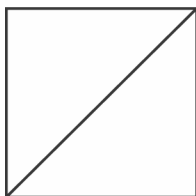
1.
 - a) Draw a triangle with one 50° angle and one 70° angle.
 - b) What is the measure of the third angle?
 - c) Is the triangle an acute, a right, or an obtuse triangle?
 - d) Use a ruler to measure the sides. Is it an equilateral, an isosceles, or a scalene triangle?

2. Is each statement true or false? Use pictures, words, or numbers to explain.
 - a) A triangle cannot have more than 1 obtuse angle.
 - b) A triangle can have 4 acute angles.
 - c) An obtuse triangle can be an equilateral triangle.

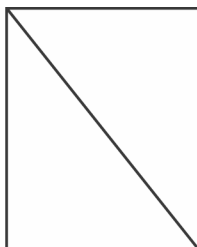
Extra Practice 3**Lesson 5: Combining Triangles**

1. Identify the types of triangles in each polygon.

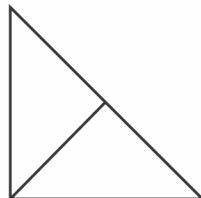
a)



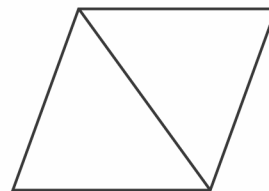
b)



c)



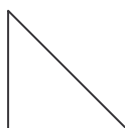
d)



2. Is it possible to create a *concave* kite using 2 congruent acute triangles? Explain.

Lesson 6: Exploring Diagonal Properties

1. Trace this triangle. Think of this triangle as $\frac{1}{4}$ of a square. Draw the square. What properties of a square did you use to draw the square?



2. A figure has:

- 4 sides
- 4 right angles
- 2 diagonals equal in length
- 45° angles at the intersection of the diagonals

What type of polygon is the figure?

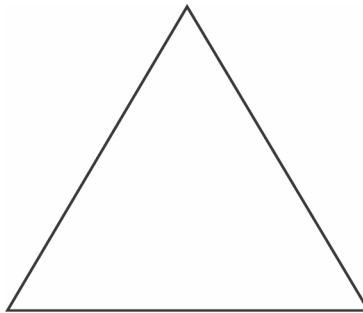
Explain the reasons for your choice.

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Extra Practice 4

Lesson 7: Dividing Figures

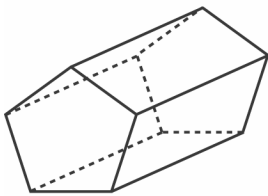
3. Draw and cut out a rectangle.
Use a ruler to draw a line from a vertex to any point on a side.
Cut along the line to make 2 pieces.
Match the congruent sides of these pieces to make as many polygons as you can.
Sketch and name each polygon you make.
4. Here is an equilateral triangle.
Show how you would cut it to make 4 congruent triangles.



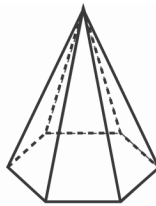
Lesson 9: Making Nets

1. Name each solid.
Then, sketch each face.

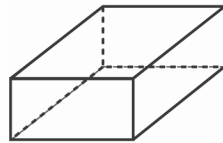
a)



b)

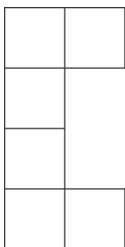


c)

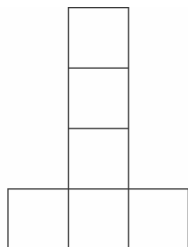


2. Which diagrams show a net for a cube?
How do you know?

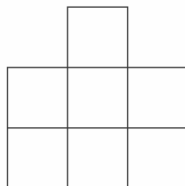
a)



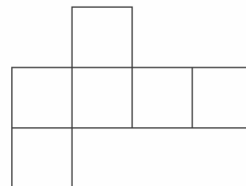
b)



c)



d)



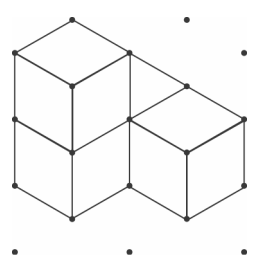
Master 3.28

Extra Practice 5

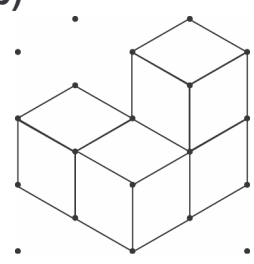
Lesson 10: Isometric Drawings

3. Which of these drawings represent the same structure?
How do you know?

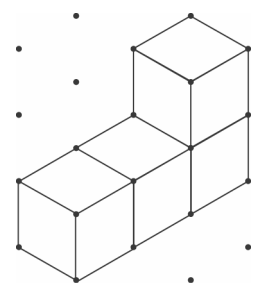
a)



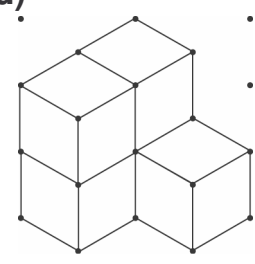
b)



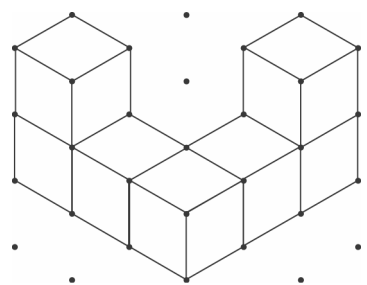
c)



d)



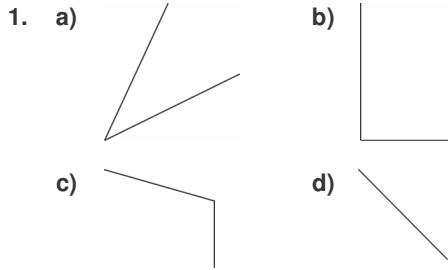
4. This drawing shows the front-left view. Build the structure.
Draw the front-right view.



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Extra Practice Answers

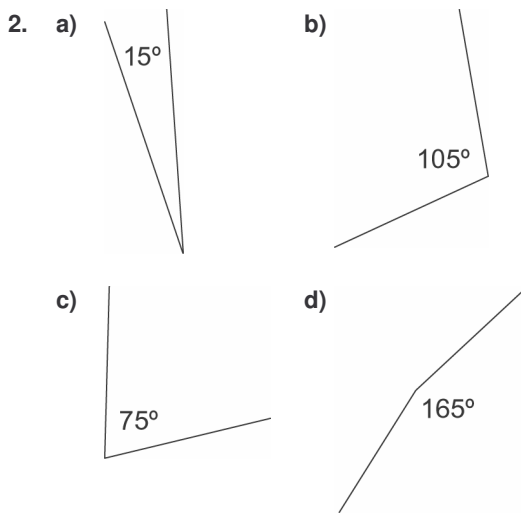
Extra Practice 1 – Master 3.24



2. a) Acute b) Acute
 c) Right d) Acute

Lesson 2

1. a) 45° ; acute angle
 b) 95° ; obtuse angle
 c) 143° ; obtuse angle
 d) 100° ; obtuse angle

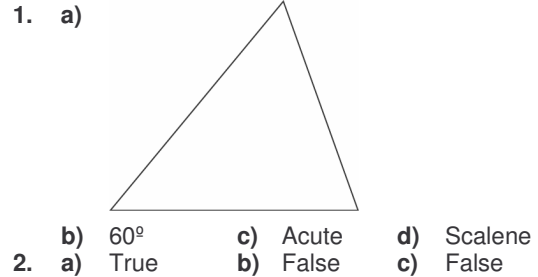


Extra Practice 2 – Master 3.25

Lesson 3



Lesson 4

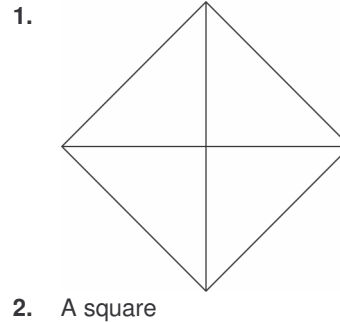


Extra Practice 3 – Master 3.26

Lesson 5

1. a) Right isosceles b) Right scalene
 c) Right isosceles d) Acute isosceles
2. No

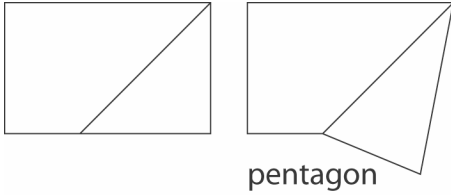
Lesson 6



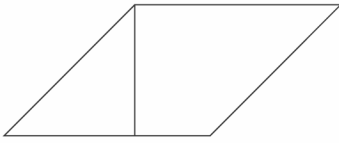
Extra Practice 4 – Master 3.27

Lesson 7

1.

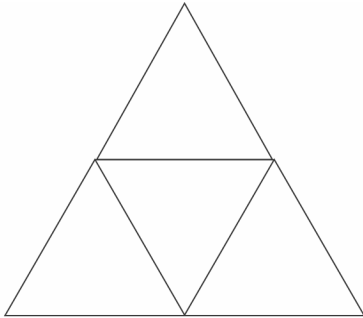


pentagon



parallelogram

2.



Lesson 9

1.
 - a) Pentagonal prism; students should sketch 2 congruent pentagons and 5 congruent rectangles.
 - b) Hexagonal pyramid; students should sketch 1 hexagon and 6 congruent triangles.
 - c) Rectangular prism; students should sketch 2 congruent rectangles and 4 other congruent rectangles.
2.

a) No	b) Yes
c) No	d) Yes

Extra Practice 5 – Master 3.28

Lesson 10

1. a and b

2.

