

Master 3.21 Extra Practice 1







Master 3.22 **Extra Practice 2**

Lesson 5: Constructing Triangles

- 1. Use a ruler and a protractor. Construct each triangle. a) Triangle ABC. The length of side AB is 4.7 cm. The measure of $\angle A$ is 45°. The measure of side AC is 5.0 cm. b) Triangle DEF. The length of DF is 6 cm. The measure of $\angle D$ is 70°. The measure of $\angle F$ is 25°.
- 2. Use a ruler and a protractor. Construct an isosceles triangle with two 45° angles. What is the measure of the third angle in the triangle?



Extra Practice 1 – Master 3.21 Lesson 1

- 2. a) Pentagon ABCDE
 - b) Equilateral triangle MNP
 - c) Hexagon PQRSTU
 - d) Trapezoid KLMN

Lesson 2

- **1. a)** 45°; acute angle
 - b) 95°; obtuse angle
 - c) 145°; obtuse angle
 - d) 80°; acute angle



Extra Practice 2 – Master 3.22 Lesson 4

- **1. a)** Acute; all angles are less than 90°
 - b) Obtuse; angle N measures 120°
 - c) Obtuse; angle J measures 95°
- **2. a)** Regular; all sides and angles are equal
 - b) Irregular; the horizontal sides are longer than the vertical sides
 - c) Irregular; one side is longer than the other two

Lesson 5

1. a)





Extra Practice 3 – Master 3.23

Lesson 6

- 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) Yes
 - d) Yes

