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## Master 3.21 Extra Practice 1

## Lesson 1: Naming and Sorting Polygons by Sides

1. Draw 3 different triangles.

Measure the sides of each triangle.
Name each triangle as equilateral, isosceles, or scalene.
2. Name each polygon.
a)

b)

C)

d)

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$\qquad$

## Master 3.21 Extra Practice 1

## Lesson 2: Measuring and Constructing Angles

1. Measure each angle with a protractor.

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

b)


d)

2. Use a ruler and a protractor.

Construct an angle with each measure.
a) $15^{\circ}$
b) $105^{\circ}$
c) $75^{\circ}$
d) $165^{\circ}$
$\qquad$

## Master 3.22 Extra Practice 2

## Lesson 4: Naming and Sorting Polygons by Angles

3. Is each triangle acute, obtuse, or right? How do you know?
a)

b)

c)

4. Name each polygon as regular or irregular.

Tell how you know.
a)

b)

c)

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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 $A B$ is 4.7 cm .
The measure of $\angle A$ is $45^{\circ}$.
The measure of side $A C$ is 5.0 cm .
b) Triangle DEF.

The length of DF is 6 cm .
The measure of $\angle \mathrm{D}$ is $70^{\circ}$.
The measure of $\angle \mathrm{F}$ is $25^{\circ}$.
2. Use a ruler and a protractor.

Construct an isosceles triangle with two $45^{\circ}$ angles.
What is the measure of the third angle in the triangle?
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## Master 3.23 Extra Practice 3

## Lesson 6: Making Nets

3. Name each solid.

Then, sketch each face.
a)

b)

c)

4. Which diagrams show a net for a cube?

How do you know?
a)

b)

c)

d)

5. You will need a square pyramid.

Create 2 different nets for the square pyramid.

## 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) $45^{\circ}$; acute angle
b) $95^{\circ}$; obtuse angle
c) $145^{\circ}$; obtuse angle
d) $80^{\circ}$; acute angle
2. a)


c)



## Extra Practice 2 - Master 3.22

## Lesson 4

1. a) Acute; all angles are less than $90^{\circ}$
b) Obtuse; angle N measures $120^{\circ}$
c) Obtuse; angle J measures $95^{\circ}$
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)

b)

2. $90^{\circ}$


## Extra Practice 3 - Master 3.23

## Lesson 6

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) Yes
d) Yes
3.

b)


