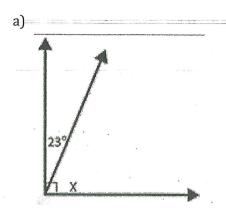
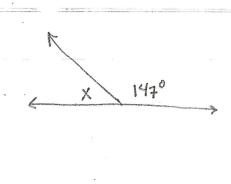
Name:	e: Color:	Date:	
Shapes	es and Designs Inv. 1 Quiz Review		
1)	.) Are rectangles parallelograms? Explain. Be sure to each type of polygon to support your answer.	o refer to specific properties o	f
2)	Are trapezoids parallelograms? Explain. Be sure to each type of polygon to support your answer.	o refer to specific properties o	f
3)	b) Which quadrilaterals have 4 right angles?		
		.*	
4)	e) Which quadrilaterals have two sets of parallel side	es? Only one set of parallel sid	les?
			
5)	 Draw and label the following polygons in the space a) A rectangle with a base of 8cm and height of the bound of the bound	of 4cm	

6) For each diagram, write and solve an equation to find the value of x. Then find the missing angle measure.





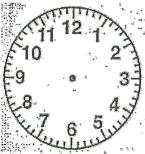
7) At the start of each hour, the minute hand on a clock points straight up to the 12. For parts a-c, draw the angle formed by the minute hand at the start of the hour and the minute hand after the given amount of time has passed. Find the measure of the angle without using an angle ruler. Show or explain your work.

a. 5 minutes



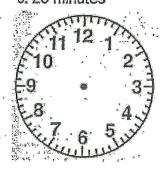
Degree measure:

b. 40 minutes



Degree measure:

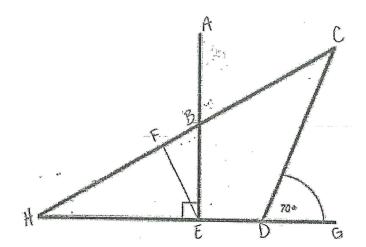
c. 25 minutes



Degree measure:

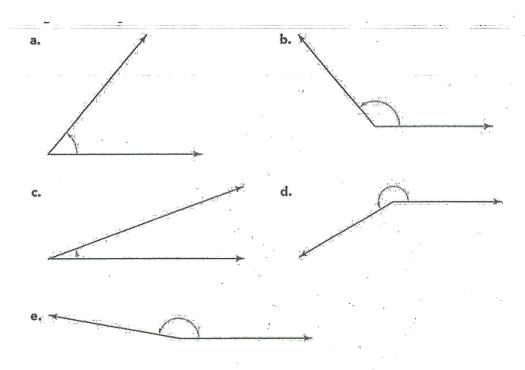
- 8) Find the supplement of:
 - a) A 24° angle
 - b) A 67° angle
 - c) An 86° angle
 - d) A 130° angle

- 9) Find the complement of:
 - a) A 24° angle
 - b) A 67° angle
 - c) An 86° angle
 - d) A 13° angle
- 10) Use the diagram below to find the following angles:

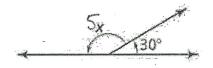


- a) Name an angle that is complementary to ∠BEF. _____
- b) Name an angle that is supplementary to ∠ABC. _____
- c) Find the supplement (degree measure) of ∠CDG. _____
- d) Name two vertical angles.
- e) Find the measure of ∠CDE._____

11) Measure the following angles with an angle ruler.



12) Write and solve an equation to find the value of x. Then find the unknown angle measure.



Name:	Color:	Date:

Shapes and Designs Inv. 1 Quiz Review

1) Are rectangles parallelograms? Explain. Be sure to refer to specific properties of each type of polygon to support your answer.

2) Are trapezoids parallelograms? Explain. Be sure to refer to specific properties of each type of polygon to support your answer.

3) Which quadrilaterals have 4 right angles?

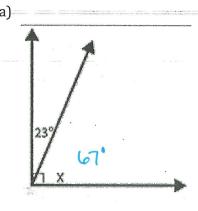
4) Which quadrilaterals have two sets of parallel sides? Only one set of parallel sides?

```
two Jets: parallel ograms one set: trapezoids
rectangles
rhombuses
squares
```

- 5) Draw and label the following polygons in the space below or on separate paper.
 - a) A rectangle with a base of 8cm and height of 4cm $\,$
 - b) A triangle with $\angle BAC = 75^{\circ}$, $\angle ABC = 75^{\circ}$
 - c) A triangle with $\angle BAC = 75^{\circ}$, $\angle ABC = 65^{\circ}$, and side AB is 4cm

(last page)

6) For each diagram, write and solve an equation to find the value of x. Then find the missing angle measure.



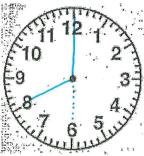
33° X 147° X + 147 = 180 X = 180 - 147

7) At the start of each hour, the minute hand on a clock points straight up to the 12. For parts a-c, draw the angle formed by the minute hand at the start of the hour and the minute hand after the given amount of time has passed. Find the measure of the angle without using an angle ruler. Show or explain your work.





Degree measure: 30°



Degree measure:
$$240^{\circ}$$
 $180 + (\frac{2}{3} \cdot 90)$
 $180 + 60$

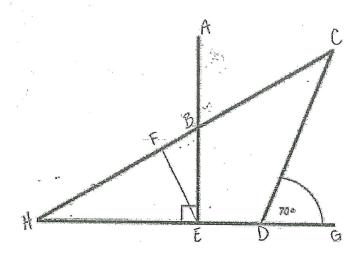


Degree measure: $|50^{\circ}$ $90 + (\frac{2}{3} \cdot 90)$

$$|80 - (\frac{1}{3} \cdot 90)|$$
 $|80 - 30|$

- 8) Find the supplement of:
 - a) A 24° angle 156°
 - b) A 67° angle 113°
 - c) An 86° angle 94°
 - d) A 130° angle 50°.

- 9) Find the complement of:
 - a) A 24° angle 66°
 - b) A 67° angle 23°
 - c) An 86° angle 4°
 - d) A 13° angle 17°
- 10) Use the diagram below to find the following angles:

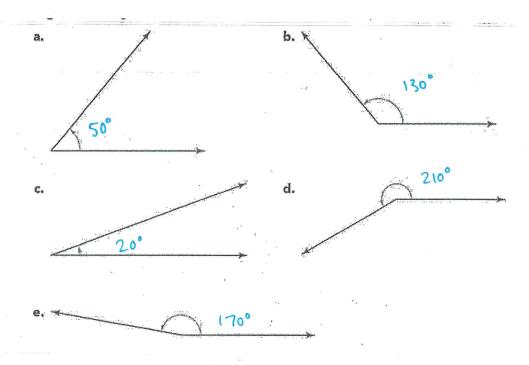


- a) Name an angle that is complementary to ∠BEF. _____ ← FEH
- b) Name an angle that is supplementary to $\angle ABC$. $\angle ABH$ or $\angle CBE$
- c) Find the supplement (degree measure) of ∠CDG. 110°, or ∠CDE

LABC and EBH

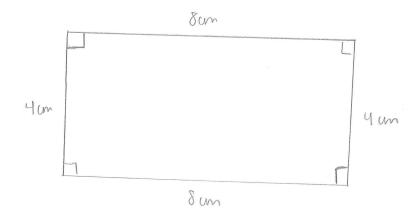
- d) Name two vertical angles. LASH and LCBE

11) Measure the following angles with an angle ruler.

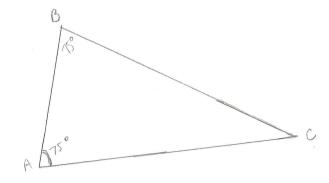


12) Write and solve an equation to find the value of x. Then find the unknown angle measure.

$$150^{\circ}$$
 $5x + 30 = 180$
 $5x = 180 - 30$
 $5x = 150$
 $x = 30$



6)



c)

