Oklahoma School Testing Program

OKLAHOMA
STATE DEPARTMENT of EDUCATION

JANET BARRESI
STATE SUPERINTENDENT
of PUBLIC INSTRUCTION

Oklahoma Core Curriculum Tests

2011–2012 Released Items

End-of-Instruction
ACE Geometry

Oklahoma State Department of Education
Oklahoma City, Oklahoma

PEARSON

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Section 1

Section 1

Directions

Read each question and choose the best answer.

10700091_1

1 **Stephen, Jon, and Pablo finished the 200-meter dash in the first three places. If Jon finished before Stephen, and Stephen did not finish 3rd, in which order did Stephen, Jon, and Pablo finish?**

A Jon: 1st, Stephen: 2nd, Pablo: 3rd

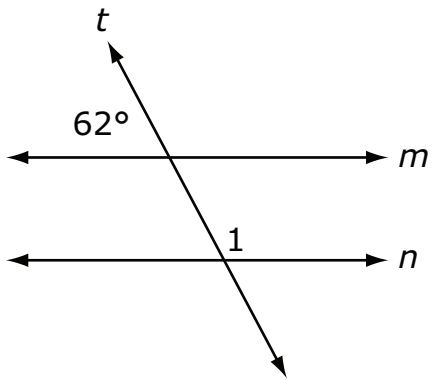
B Jon: 1st, Pablo: 2nd, Stephen: 3rd

C Stephen: 1st, Pablo: 2nd, Jon: 3rd

D Stephen: 1st, Jon: 2nd, Pablo: 3rd

101108_1

2 **Transversal *t* cuts parallel lines *m* and *n*.**



What is the measure of ∠1?

F 118°

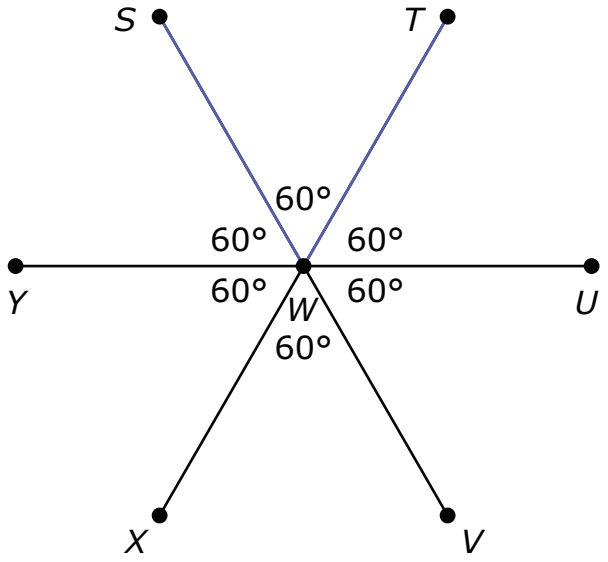
G 121°

H 152°

J 162°

Section 1

4 100029_4



Which angle is vertical to $\angle SWT$?

F $\angle SWY$

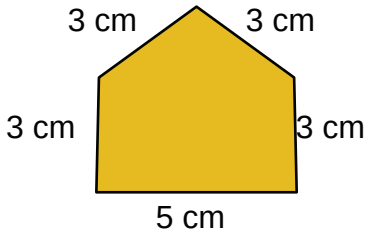
G $\angle TWU$

H $\angle YWX$

J $\angle XWV$

5

101066_2



11000043_3

The perimeter of a square, in centimeters, is equal to the circumference of a circle in centimeters. The radius of the circle is 3 centimeters. To the nearest square centimeter, what is the area of the square? (Use 3.14 for

S)

$$C = 2 \quad r$$

F 6 cm^2

G 19 cm^2

H 22 cm^2

J 50 cm^2

Section 1

7 11000050_2

If ΔRST and ΔXYZ are similar scalene triangles, which of the following statements is not true?

A $\angle R \cong \angle X$

B $\angle T \cong \angle Y$

C $\frac{RS}{XY} = \frac{ST}{YZ}$

D $\frac{RT}{ST} = \frac{XZ}{YZ}$

8 10900018_4

The ratio of the perimeter of rectangle P to the perimeter of rectangle Q is 2:5. The area of rectangle P is 12 square feet. What is the area of rectangle Q?

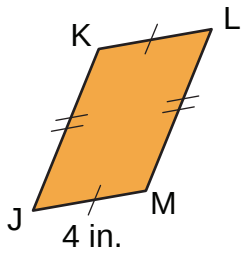
F 1.92 square feet

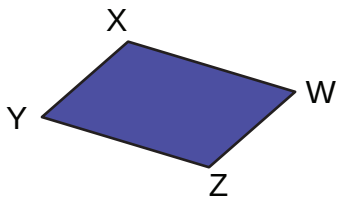
G 4.80 square feet

H 30.00 square feet

J 75.00 square feet

9

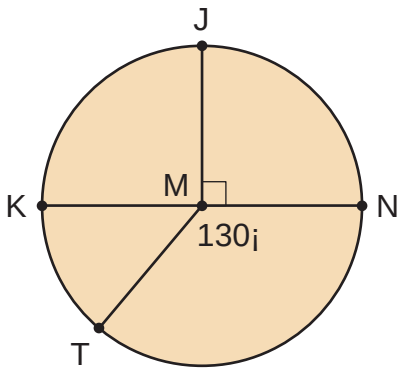




$\overline{WX}$?

10

10700508_3

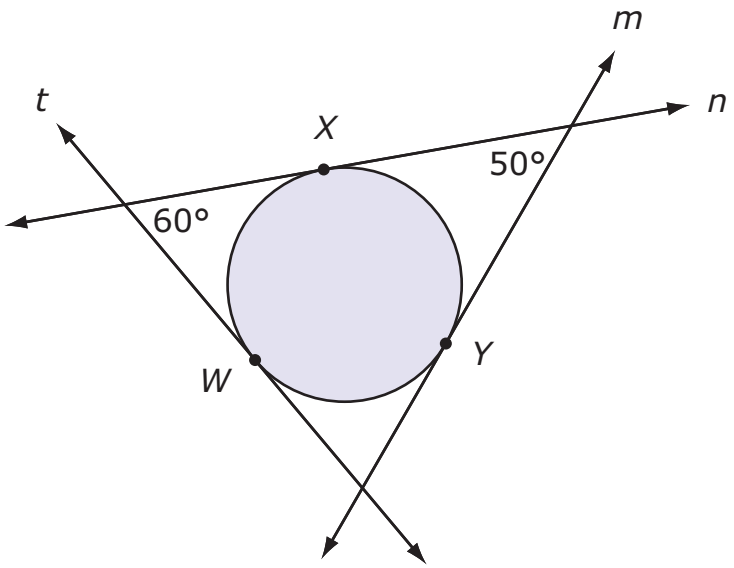


$\overline{KN}$

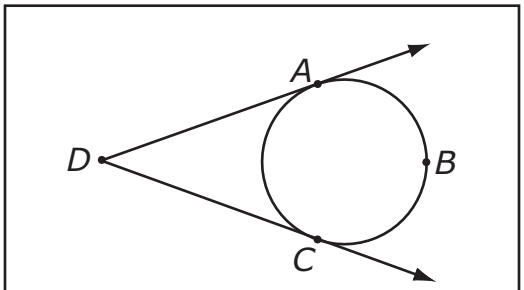
Section 1

10900122_2

11 **Lines *t*, *m*, and *n* are tangent to the circle at *W*, *Y*, and *X*.**



What is the measure of $\overset{\frown}{WY}$?



$m\angle ADC = \frac{1}{2}(m\overset{\frown}{ABC} - m\overset{\frown}{AC})$

A 100°

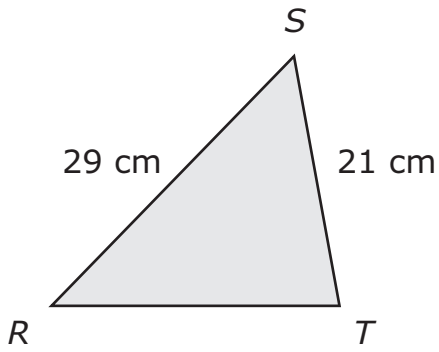
B 110°

C 120°

D 130°

11000100_4

12 **Triangle *RST* is an acute triangle.**



Which measurement could be the length of $\overline{RT}$?

F 12 cm

G 15 cm

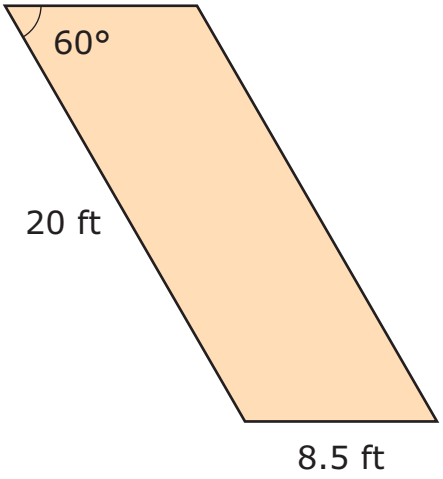
H 20 cm

J 24 cm

Section 1

13 **The diagram shows the dimensions of a parking space in the shape of a parallelogram.**

11000112_3



What is the approximate area of the parking space?

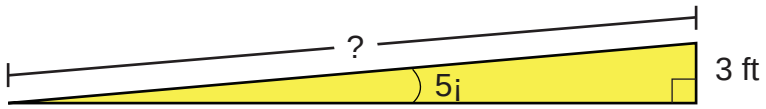
A 62.6 square feet

B 120.2 square feet

C 147.2 square feet

D 170.0 square feet

14

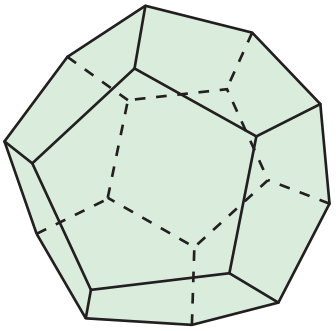


sin 5¡	0.087
cos 5¡	0.996
tan 5¡	0.087

Section 1

15

11000148_2



Which type of polyhedron is shown?

A decahedron

B dodecahedron

C hexahedron

D pentahedron

16

101026_2

U

$$V = \frac{1}{3} r^2 h$$

36 $U cm^3$

54 $U cm^3$

108 $U cm^3$

162 $U cm^3$

Two similar regular polyhedra have surface areas and 16 cm^2 64 cm^2. 10700547_1

What is the ratio of their edge lengths?

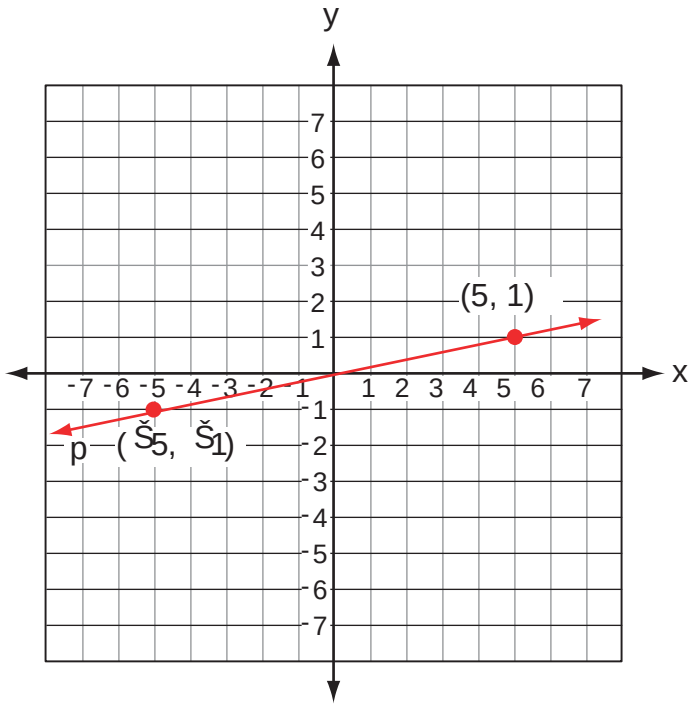
A 1:2

B 1:4

C 1:8

D 1:16

19



y = 5x 1

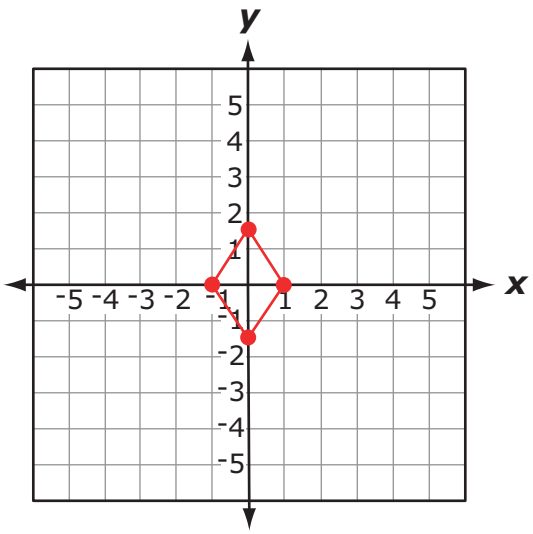
y = 5x + 1

y = $\frac{1}{5}$x 3

y = $\frac{1}{5}$x + 2

10700151_3

20 **Ethan drew this shape on the coordinate system. He wants to use a transformation that will change the position of the shape.**



Which transformation should Ethan perform?

F reflection across the *x*-axis

G reflection across the *y*-axis

H rotation of 90° clockwise about the origin

J rotation of 180° counterclockwise about the origin

STOP

END OF SECTION 1

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535746 1 2 3 4 5 A B C D E Printed in the USA ISD3058