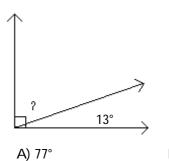
Name_

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Find the measure of the angle in which?° appears.





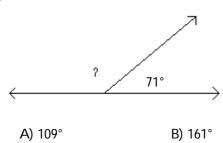
B) 167°

C) 132°

D) 72°

2)





C) 19°

D) 29°

Find the measure of the complement of the angle.

3) Find the complement of 34°.

A) 236°

B) 146°

C) 326°

D) 56°

3)

Find the measure of the supplement of the angle.

4) Find the supplement of 37°.

A) 323°

B) 143°

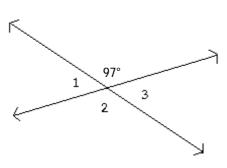
C) 53°

D) 233°

Find the measures of angles 1, 2, and 3.

5)

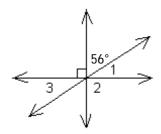




A) $m\angle 1 = 97^{\circ}$, $m\angle 2 = 7^{\circ}$, $m\angle 3 = 97^{\circ}$ C) $m\angle 1 = 83^{\circ}$, $m\angle 2 = 97^{\circ}$, $m\angle 3 = 83^{\circ}$ B) $m\angle 1 = 97^{\circ}$, $m\angle 2 = 83^{\circ}$, $m\angle 3 = 97^{\circ}$

D) $m\angle 1 = 7^{\circ}$, $m\angle 2 = 97^{\circ}$, $m\angle 3 = 7^{\circ}$





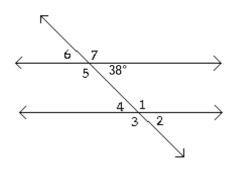
- A) $\angle 1 = 124^{\circ}$; $\angle 2 = 56^{\circ}$; $\angle 3 = 124^{\circ}$
- C) $\angle 1 = 34^{\circ}$; $\angle 2 = 112^{\circ}$; $\angle 3 = 34^{\circ}$

- B) $\angle 1 = 34^{\circ}$; $\angle 2 = 90^{\circ}$; $\angle 3 = 34^{\circ}$
- D) $\angle 1 = 34^{\circ}; \angle 2 = 90^{\circ}; \angle 3 = 56^{\circ}$

The figure shows two parallel lines intersected by a transversal. One of the angle measures is given. Find the measure of the indicated angle.

7)





Find the measure of ∠6.

A) 52°

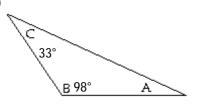
- B) 128°
- C) 38°

D) 28°

Find the measure of angle A for the triangle shown.

8)





A) 57°

- B) 229°
- C) 49°
- D) 8°

9)



A □B 44° C

- A) 136°
- B) 56°

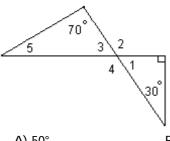
- C) 46°
- D) 90°

10) Find the measure of angle 5 in the figure shown.

10)

11) _____

12) _____

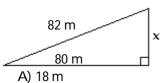


A) 50° B) 40° C) 60°

D) 70°

Use similar triangles and the fact that corresponding sides are proportional to find the length of the side marked with an Χ.

11)

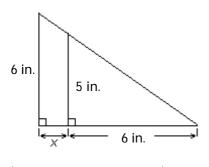


B) 9 m

- C) 13 m
- D) 27 m

Use similar triangles and the fact that corresponding sides are proportional to find the length of the segment marked with an x.

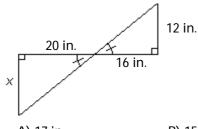
12)



- A) 1.2 in.
- B) 1.24 in.
- C) 1 in.
- D) 7.2 in.

Use similar triangles and the fact that corresponding sides are proportional to find the length of the side marked with an Χ.

13)



- A) 17 in.
- B) 15 in.
- C) 9.6 in.
- D) 26.67 in.

,		a 10-ft tree casts a shadow of	3 ft. What is the height	14)
of the flag pole? A) 10.8 ft	B) 120 ft	C) 0.8 ft	D) 1080 ft	
Use the Pythagorean Theorem to 1 rounding, if necessary, to the near	_	ngth in the right triangle. Use	e a calculator to find squa	re roots,
15)				15)
12 mi 16 mi A) 20 mi	B) 14 mi	C) 10.6 mi	D) 19 mi	
16)				16)
6 km 10 km				
A) 9 km	B) 8 km	C) 10 km	D) 7 km	
Use the Pythagorean Theorem to sthe nearest tenth.	solve the problem. l	Use your calculator to find so	quare roots, rounding, if r	necessary, to
17) A 37-inch-square TV is on sale at the local electronics store. If 37 inches is the measure of the diagonal of the screen, use the Pythagorean theorem to find the length of the side of the screen.				17)
A) 6.1 in.	B) 3 in.	C) 684.5 in.	D) 26.2 in.	
18) A square sheet of paper measures 25 centimeters on each side. What is the length of the diagonal of this paper?				18)
A) 35.4 cm	B) 50 cm	C) 25 cm	D) 1250 cm	
19) A 15-foot pole is supported by two wires that extend from the top of the pole to points that are each 8 feet from the base of the pole. Find the total length of the two wires.				19)
A) 34 ft	B) 578 ft	C) 17 ft	D) 46 ft	
SHORT ANSWER. Write the wor	rd or phrase that be	st completes each statement	or answers the question.	
•	•	adder against their house. If t	′ <u> </u>	

house? Round to the nearest tenth.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Find the perimeter of the figure named and shown. Express the perimeter in the same unit of measure that appears on the given side or sides.

21)

Rectangle
6 in.

12 in.

12 in.

- 6 in. A) 36 in.
- B) 12 in.
- C) 24 in.
- D) 18 in.

21) _____

22) ____

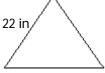
23)

24)

Parallelogram
49 m
27 m
27 m

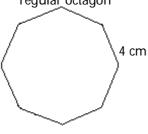
- 49 m A) 125 m
- B) 103 m
- C) 152 m
- D) 76 m

23)
Equilateral triangle



- A) 242 in
- B) 66 in
- C) 65 in
- D) 44 in

24) regular octagon

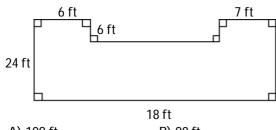


- A) 28 cm
- B) 24 cm
- C) 32 cm
- D) 8 cm

Find the perimeter of the figure shown. Express the perimeter in the same unit of measure that appears on the given side or sides.

25)

25)



A) 109 ft

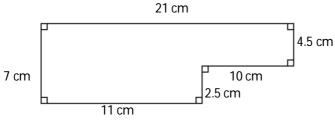
B) 90 ft

C) 96 ft

D) 72 ft

26)





A) 59 cm

B) 53.5 cm

C) 51.5 cm

D) 56 cm

Solve the problem.

27) A garden is in the shape of a rectangle 47 feet long and 25 feet wide. If fencing costs \$7 a foot, what 27) will it cost to place fencing around the garden?

A) \$8225

- B) \$1008
- C) \$504
- D) \$2016
- 28) Find the sum of the measures of the angles of a 6-sided polygon.

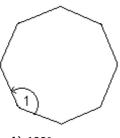
B) 180°

- D) 1080°

28)

The figure shows a regular polygon. Find the measure of angle 1.



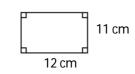


A) 120°

- B) 108°
- C) 180°
- D) 135°

Use formulas to find the area of the figure.

30)



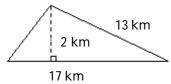
- A) 46 cm²
- B) 23 cm²
- C) 132 cm²
- D) 44 cm²

31)

32)

33)

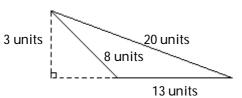
34) _____



A) 13 km²

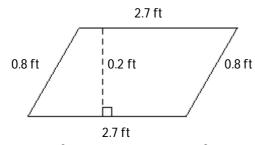
- B) 17 km²
- C) 110.5 km²
- D) 34 km²

32)



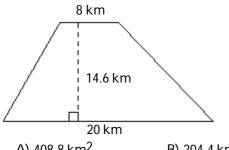
- A) 39 units²
- B) 30 units²
- C) 12 units²
- D) 19.5 units²

33)

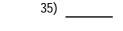


- A) 2.16 ft²
- B) 3.5 ft²
- C) 0.54 ft²
- D) 5.4 ft²

34)

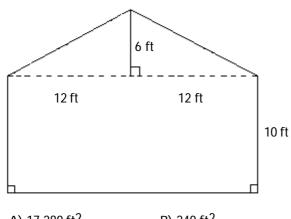


- A) 408.8 km²
- B) 204.4 km²
- C) 292 km²
- D) 116.8 km²



- шД 6 in.
- A) 116 in.²
- B) 175 in.²
- C) 162 in.²
- D) 258 in.²

36)



- A) 17,280 ft²
- B) 240 ft²

B) \$7140

- C) 72 ft²
- D) 312 ft²

Solve the problem.

- 37) What will it cost to tile a rectangular floor measuring 255 feet by by 28 feet if the tile costs \$16 per square foot?
 - A) \$114,240

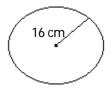
- C) \$299
- D) \$9056

37) ____

Find the circumference and area of the circle. Round the answer to the nearest whole number.

38)





- A) 50 cm, 201 cm²
- C) 101 cm, 804 cm²

- B) 101 cm, 101 cm²
- D) 50 cm, 3217 cm²

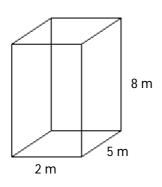
Solve the problem. Round all circumference and area calculations to the nearest whole number.

- 39) How much fencing is required to enclose a circular garden whose diameter is 287 m?
 - A) 451 m
- B) 902 m
- C) 258,770 m
- D) 1803 m

39)

Find the volume of the figure. If necessary, round the answer to the nearest whole number.





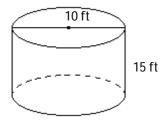
- A) $50 \, \text{m}^3$
- B) 80 m³
- C) 320 m³
- D) $32 \, \text{m}^3$



42) _____

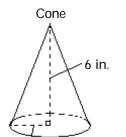
43)

44)



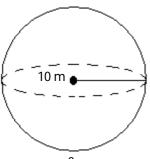
- A) 1178 ft³
- B) 471 ft³ C) 236 ft³
- D) 4712 ft³

42)

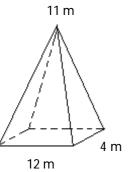


- A) 615 in.³
- B) 88 in.³
- C) 462 in.³
- D) 308 in.³

43)



- A) 2356 m³
- B) 524 m³
- C) 419 m³
- D) 4189 m³



- A) 176 m³
- B) 8448 m³ C) 553 m³
- D) 528 m³