

Raw Field Test Items

Math 9 Example Items

Example 1:

Numerical Response

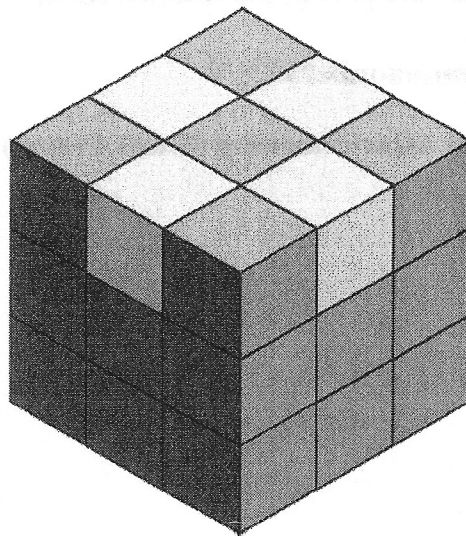
How many whole number values are part of the solution set of $-1 < \frac{4-x}{2} < 3$?

Answer: _____ whole numbers

(Record your answer in the numerical-response section on the answer sheet.)

Example 2:

The following object contains 23 blue cubes and 4 yellow cubes. Each cube has a volume of 8 cm^3 .

**Numerical Response**

What will be the surface area of the object shown above if the 4 yellow cubes are removed?

Answer: _____ cm^2

(Record your answer in the numerical-response section on the answer sheet.)

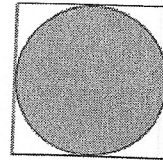
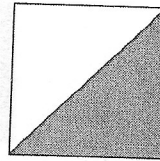
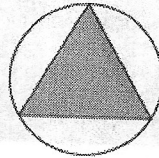
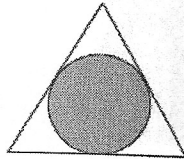
Example 3:

Numerical Response

How many lines of symmetry does each of the 2-D shapes shown below have?

Lines of Symmetry: _____

2-D Shapes:

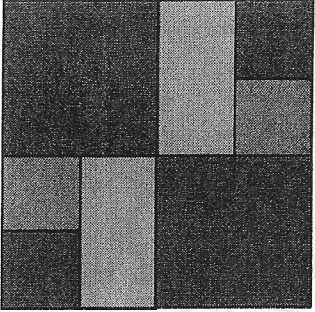


(Record all four digits of your answer in the numerical-response section on the answer sheet.)

Handwritten notes:
Equilateral triangle has 3 lines of symmetry.
Circle has infinite lines of symmetry.
Square has 4 lines of symmetry.
Right triangle has 1 line of symmetry.

Example 4:

The square tile pattern shown below has an area of 17.64 cm^2 .



Numerical Response

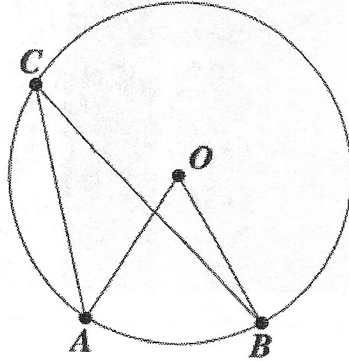
What is the perimeter of one yellow rectangle in the tile pattern shown above?

Answer: _____ cm

(Record your answer in the numerical-response section on the answer sheet.)

Square root is pictorial form
 Crossing strands
 (Number, Shape + Space)

Example 5:



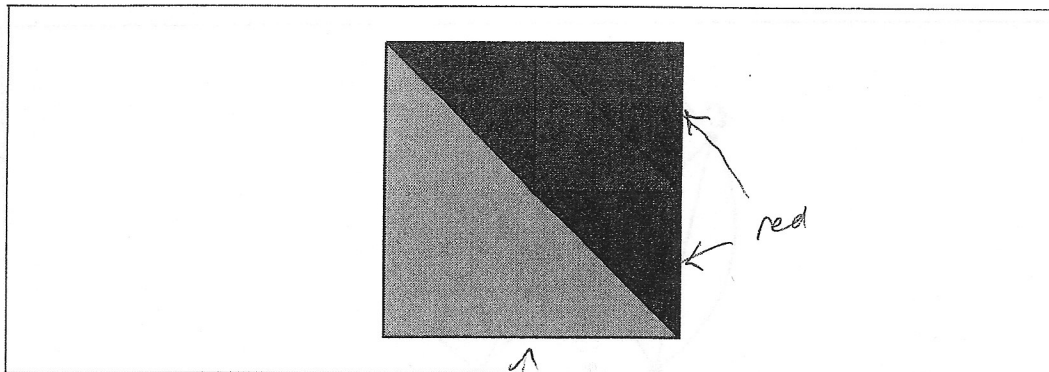
Note: The diagram shown above has **not** been drawn to scale.

Numerical Response

If $\angle AOB = 50^\circ$, then $\angle ACB =$ _____ $^\circ$.

(Record your answer in the numerical-response section on the answer sheet.)

Example 6:



Numerical Response

What is the area of the red shaded region in the square shown above if the area of the yellow triangle is 18 units²?

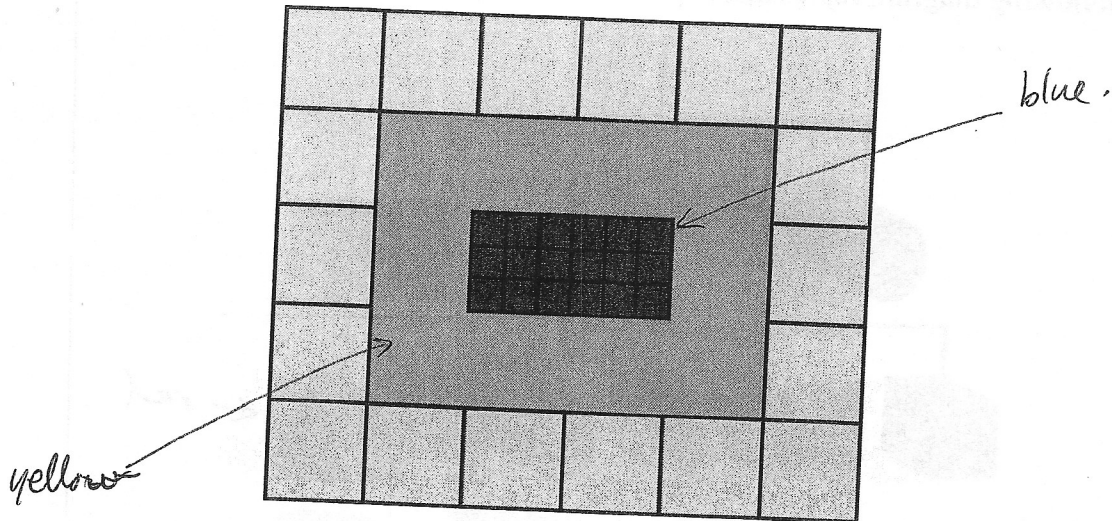
Answer: _____ units²

(Record your answer in the numerical-response section on the answer sheet.)

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Example 7:

The area of one blue square shown in the diagram below is $16x^2$.

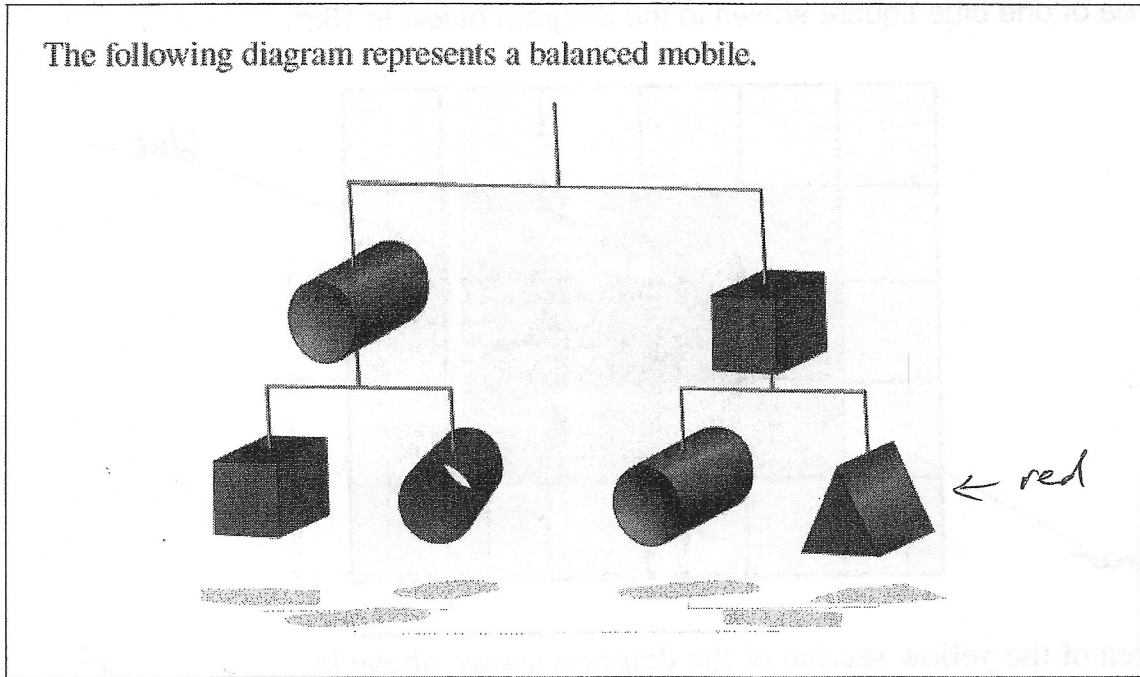


The area of the yellow section of the diagram shown above is _____ x^2 .

(Record your answer in the numerical-response section on the answer sheet.)

* Crossing strands

Example 8:



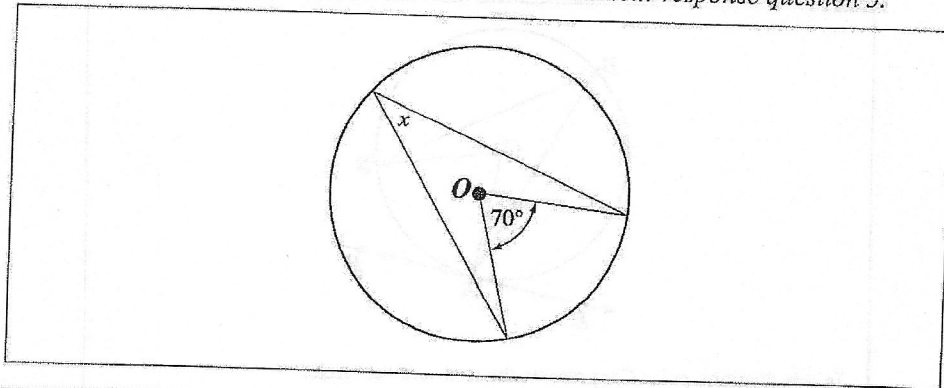
Numerical Response

What is the mass of the mobile shown above if the mass of the red prism is 2 grams?

Answer: _____ grams

(Record your answer in the numerical-response section on the answer sheet.)

Use the following information to answer numerical-response question 5.



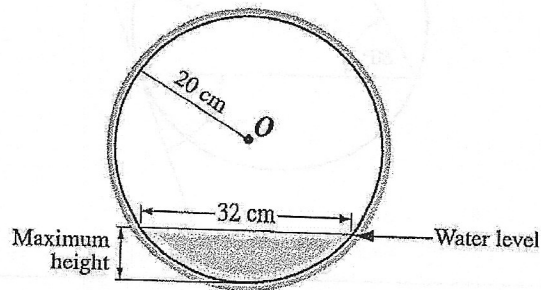
Numerical Response

5. If O is the centre of the circle, the measure of x is _____ °.

(Record your answer in the numerical-response section on the answer sheet.)

Use the following information to answer numerical-response question 2.

The diagram below shows a circular pipe that has O as its centre. The radius of the pipe is 20 cm.

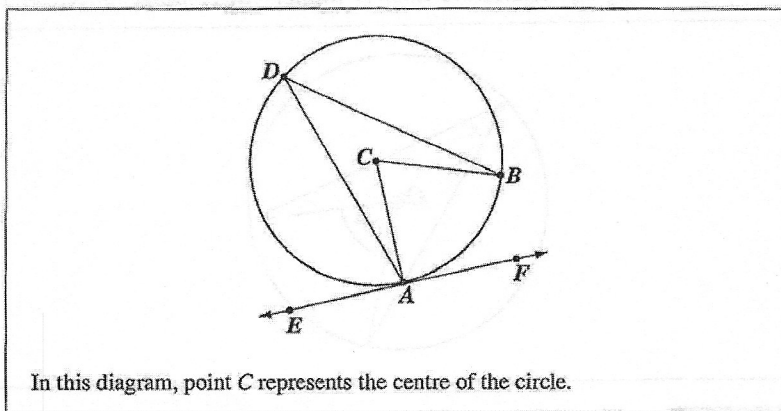


Numerical Response

2. The maximum depth of the water in the pipe is _____ cm.

(Record your answer in the numerical-response section on the answer sheet.)

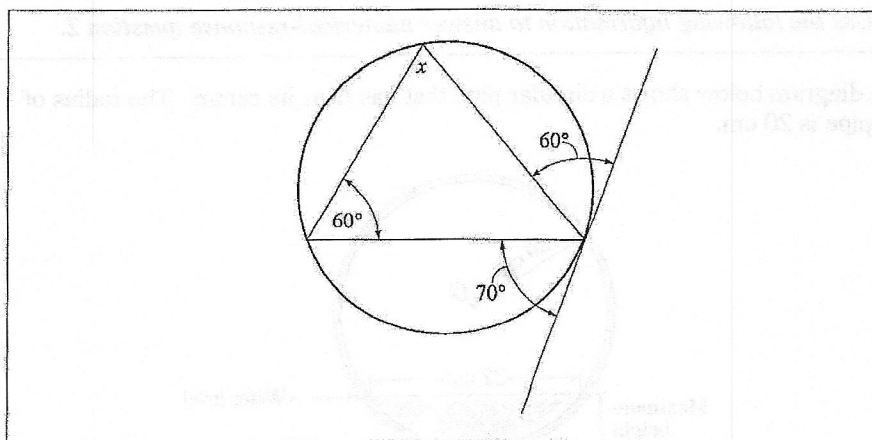
Use the following information to answer question 12.



12. Which of the following rows of terms correctly labels the parts of the diagram above?

Row	$\angle ADB$	\overline{AD}	$\angle ACB$	\overleftrightarrow{EF}
A.	Inscribed angle	Tangent line	Central angle	Chord
B.	Inscribed angle	Chord	Central angle	Tangent line
C.	Central angle	Tangent line	Inscribed angle	Chord
D.	Central angle	Chord	Inscribed angle	Tangent line

Use the following information to answer question 38.



38. The measure of x in the diagram above is

- A. 50°
- B. 60°
- C. 65°
- D. 70°