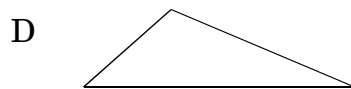
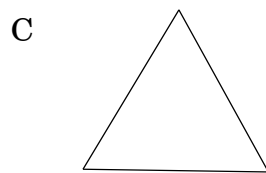
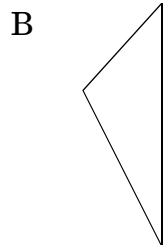
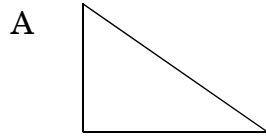
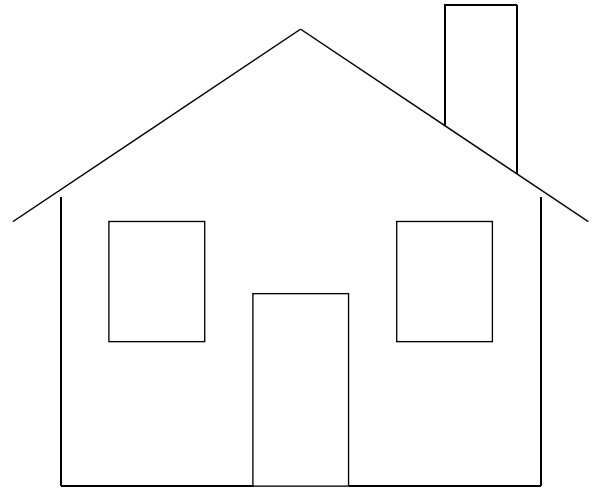


1. Which of the following triangles has **only** acute angles?

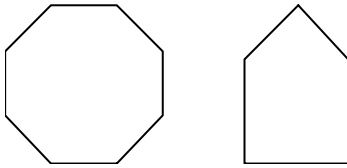


2. This picture is made **mostly** of which of the following?



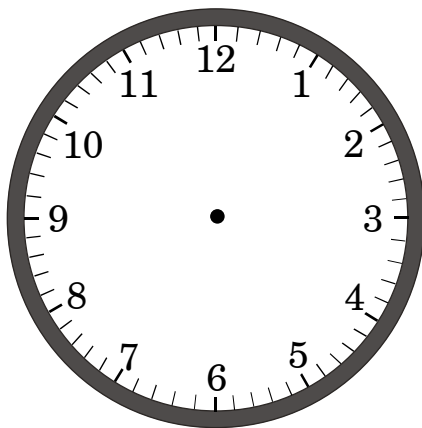
- A obtuse angles and diagonal line segments
- B right angles and circles
- C acute angles and intersecting line segments
- D right angles and straight line segments

3. Charles noticed these highway signs on his way to school:



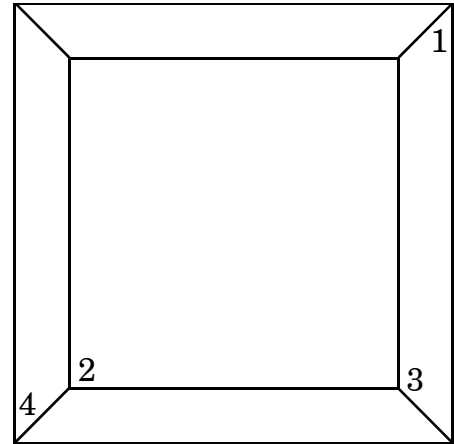
Which statement **best** describes the signs Charles saw?

- A Only right angles are in the two signs.
 - B Right angles or obtuse angles are in the signs.
 - C Acute angles or obtuse angles are in the signs.
 - D Only obtuse angles are in the two signs.
4. At what time do the hands of a clock form an acute angle?



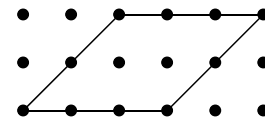
- A 2:10
- B 4:50
- C 7:00
- D 9:00

5. In this picture frame, which of the labeled angles is an obtuse angle?



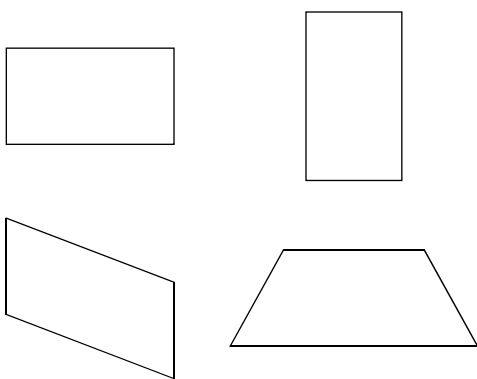
- A 1
- B 2
- C 3
- D 4

6. How many sides does this polygon have?



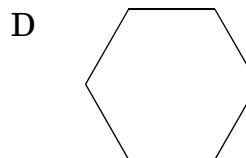
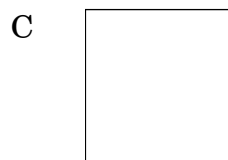
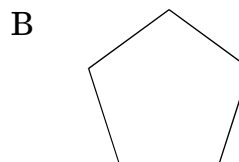
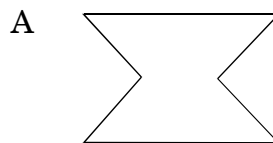
- A 12
- B 10
- C 4
- D 2

7. What do the following figures have in common?



- A They are all quadrilaterals.
B They are all parallelograms.
C They are all rectangles.
D They are all squares.

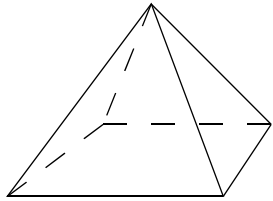
8. Which of the following is a plane figure with 6 sides, 6 obtuse angles, and 6 vertices?



9. Which of the following could be the lengths of the sides of a triangle?

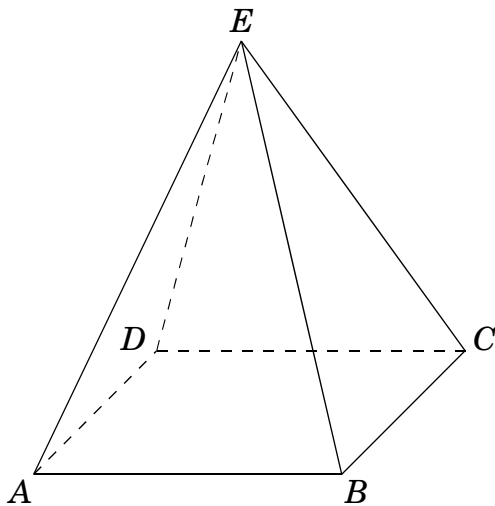
- A 1, 2, 1
B 2, 3, 1
C 3, 5, 4
D 7, 15, 7

10. How many vertices does this pyramid have?



- A 4
B 5
C 6
D 8

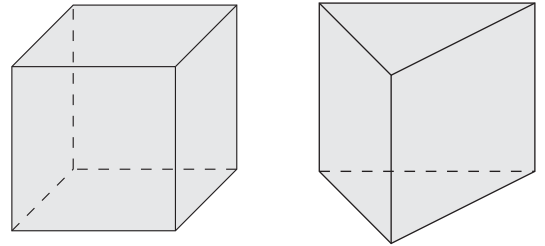
11. Sandy's pyramid project won first prize at her school.



How many faces, edges, and vertices does her pyramid have?

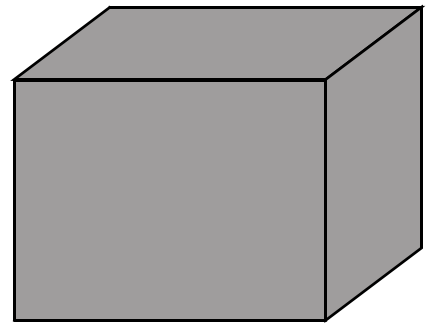
- A 5 faces, 4 edges, 1 vertex
B 4 faces, 4 edges, 5 vertices
C 4 faces, 8 edges, 4 vertices
D 5 faces, 8 edges, 5 vertices

12. How many more vertices does a cube have than a triangular prism?



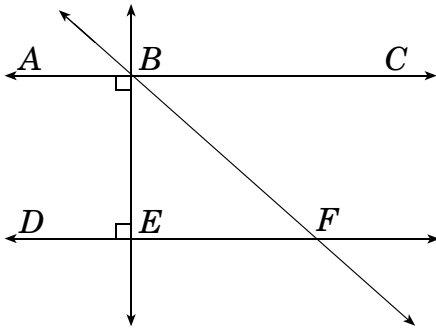
- A 8
B 6
C 4
D 2

13. Which word identifies the intersection of the three shaded faces of the box?



- A face
B edge
C vertex
D angle

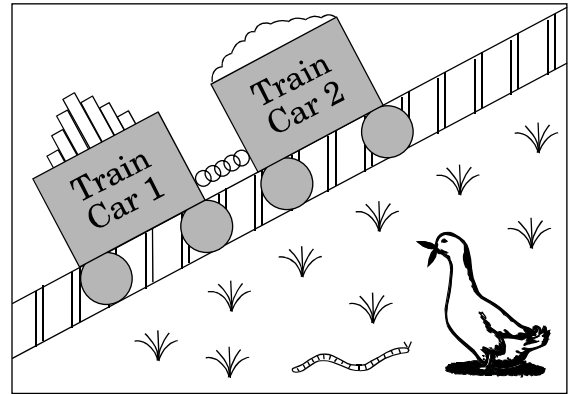
14. Which line is parallel to \overleftrightarrow{AC} ?



- A \overleftrightarrow{AB}
- B \overleftrightarrow{BE}
- C \overleftrightarrow{BF}
- D \overleftrightarrow{DF}

15. In art class, Celina identifies the parallel lines in her painting.

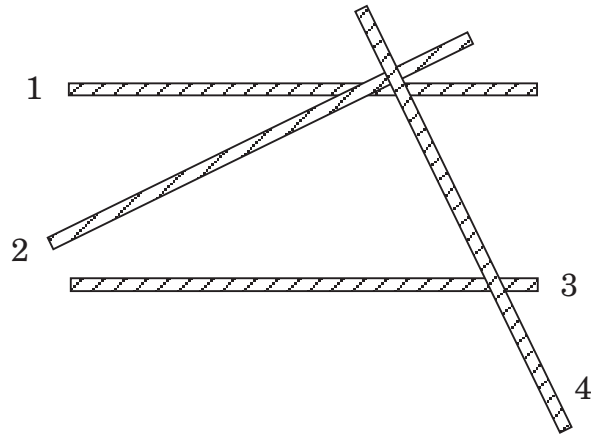
Celina's Painting



Which part of her painting shows parallel lines?

- A bird's beak
 - B train tracks
 - C wheels of train cars
 - D worm
16. Which of the following times on the face of a clock show an hour hand and a minute hand that are perpendicular?
- A 10:00 and 2:00
 - B 3:00 and 6:00
 - C 3:00 and 9:00
 - D 4:00 and 8:00

17. Vicki placed four straws on her table.

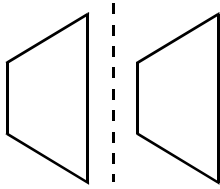


Which two straws appear to be perpendicular to each other?

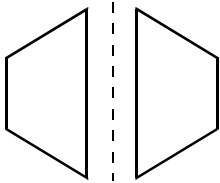
- A straws 1 and 2
- B straws 1 and 3
- C straws 2 and 4
- D straws 2 and 3

18. Which pair of trapezoids shows a slide?

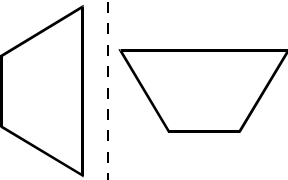
A



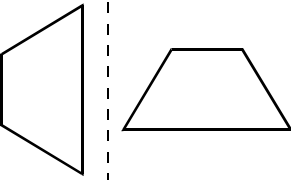
B



C

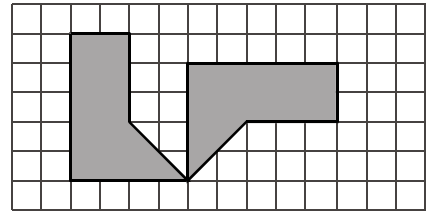


D

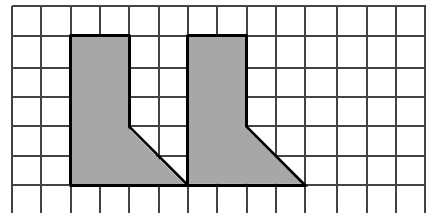


19. Which of the following shows a rotation (turn)?

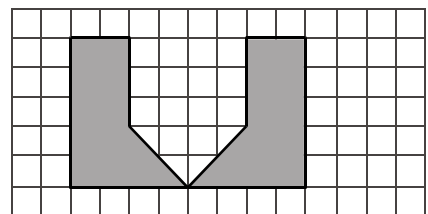
A



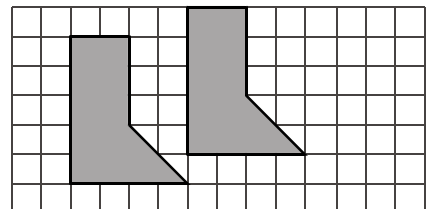
B



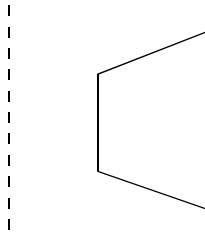
C



D

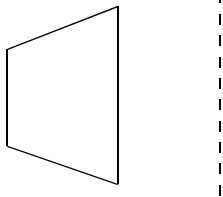


20.

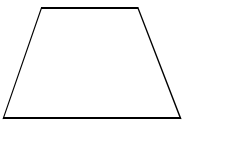


Which figure is a reflection of the polygon over the dotted line?

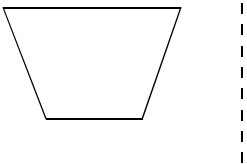
A



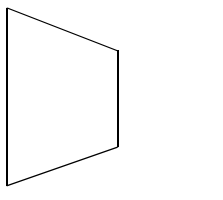
B



C



D



21.

How will the kite look if the wind rotates it 90° to the left?



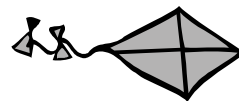
A



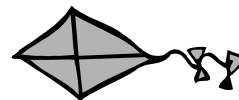
B



C



D



22.

Which measure is **most** appropriate for a plant watering can?

A

2 milliliters

B

20 milliliters

C

2 liters

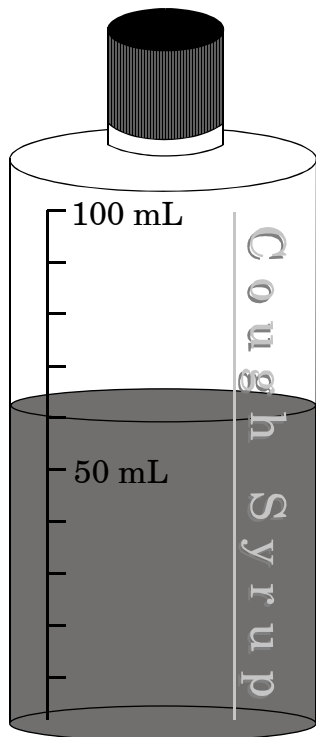
D

20 liters

23. Laurie needs one cup of milk for each cake she bakes. If Laurie plans to make 4 cakes, how much milk will she use?

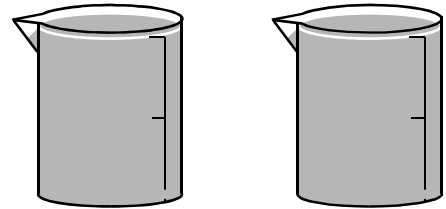
A 1 pint
 B 1 quart
 C 2 quarts
 D 1 gallon

24. How many milliliters of cough syrup are in the bottle?



A 30 mL
 B 40 mL
 C 50 mL
 D 60 mL

25. In science, Emily uses two beakers to hold the water she needs for an experiment. Each beaker holds 1 liter.



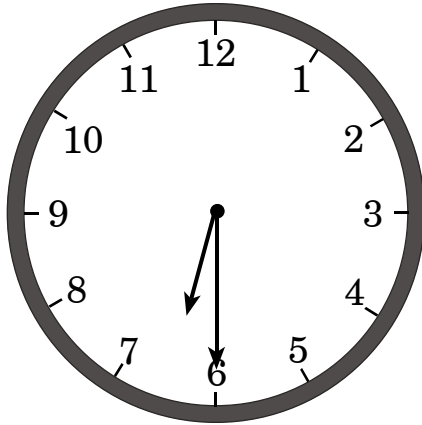
How many milliliters of water does she use in the experiment?

A 2 mL
 B 200 mL
 C 2,000 mL
 D 20,000 mL

26. What is the **best** unit to use for measuring the amount of soda in a drink can?

A quart
 B gallon
 C tablespoon
 D cup

27. Marissa has to eat dinner at 6:30 p.m.



She gets home from school at 3:15 p.m. She practices soccer for 1 hour and 30 minutes, does chores for 45 minutes, and walks her dog for 20 minutes. Will she have at least 30 minutes before dinner to complete her homework assignment?

- A No. After she gets home from school she only has 3 hours and 15 minutes before dinner.
- B No. She spends too much time practicing soccer.
- C Yes. She will have 40 minutes before dinner to do her homework.
- D Yes. She will have one hour before dinner to do her homework.

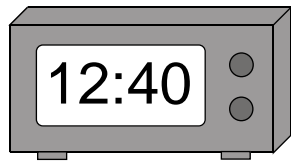
28. Shane saw the following sign posted in the cafeteria:

Snack Prices	
Juice	\$0.75
Yogurt	\$0.89
Fruit	\$0.35

Shane has \$5. If he buys 3 juices and 2 yogurts, how much money should he have left?

- A \$4.03
- B \$3.36
- C \$1.64
- D \$0.97
29. What is the **least** number of bills and coins needed to make change from a 20-dollar bill for a purchase of \$13.40?
- A one \$5, one \$1, one half-dollar, and one dime
- B one \$5, two \$1s, two quarters, and one dime
- C one \$5, one \$1, one quarter, two dimes, and one nickel
- D six \$1s, one half-dollar, and one dime

30. Aunt Ruth's clock is shown below.



If her niece is going to pick her up in 30 minutes, what time will be shown on the clock?

- A 12:10
B 12:70
C 1:10
D 1:60
31. Jane has one hour to spend at the mall. She spends 30 minutes trying on clothes and 15 minutes eating. How much time does she have left?
- A 5 minutes
B 15 minutes
C 45 minutes
D 50 minutes

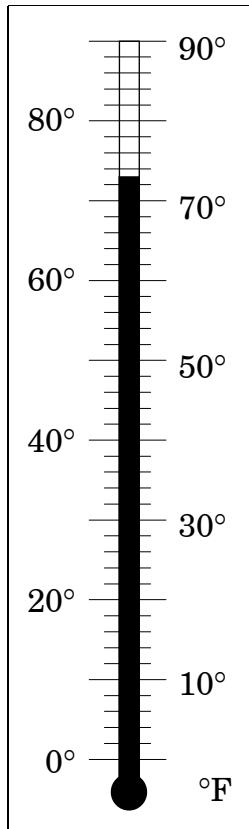
32. The following is the price list of the school store.

pencils	6¢
erasers	2¢
markers	25¢
pens	12¢

Which costs the *least*?

- A two pencils
B three erasers
C one marker
D two pens

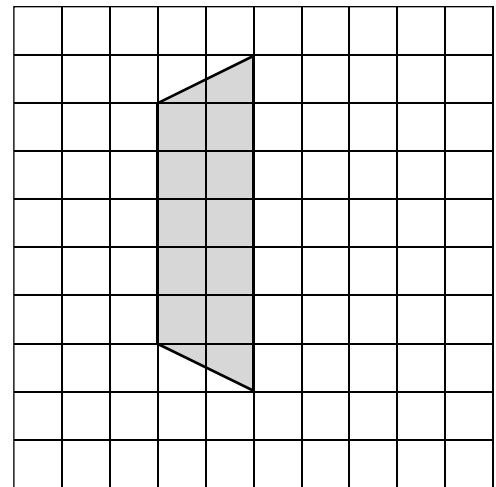
33. Ray's mom read the thermometer below and said he could go swimming when the temperature gets to 80° or more. The newspaper said the temperature will rise 2° per day. The thermometer shows today's temperature.



How long will it be until Ray gets to go swimming?

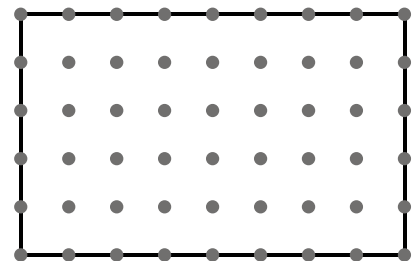
- A 1 more day
- B 3 more days
- C 4 more days
- D 7 more days

34. What is the area of the shaded figure?



- A 10 square units
- B 12 square units
- C 16 square units
- D 18 square units

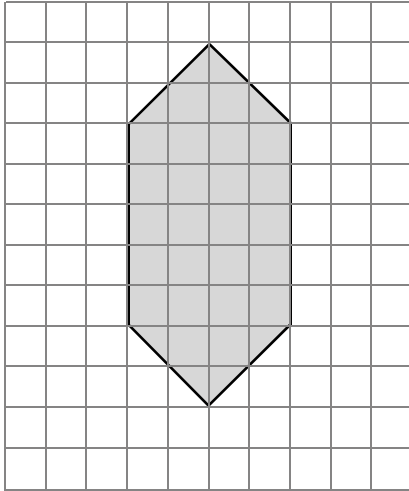
35. The length of one side of the rectangle is 5 units.



What is the perimeter of the rectangle?

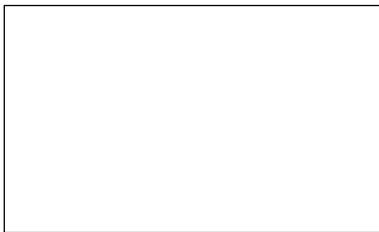
- A 13 units
- B 16 units
- C 26 units
- D 40 units

36. What is the area of the shaded figure?



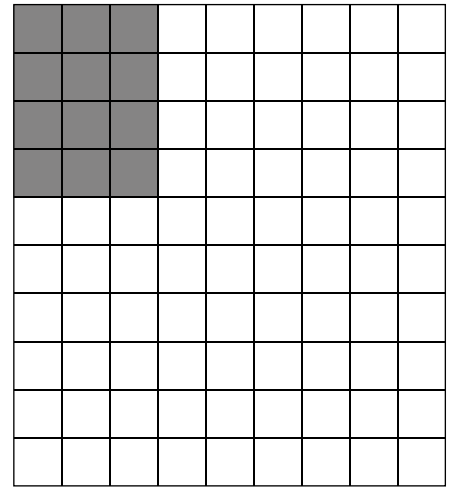
- A 24 sq units
- B 26 sq units
- C 28 sq units
- D 32 sq units

37. About, what is the perimeter of this rectangle in centimeters?



- A 12 cm
- B 16 cm
- C 30 cm
- D 34 cm

38. If the length and width of the shaded rectangle were doubled, what would be the area of the new rectangle?



- A 60 square units
- B 48 square units
- C 36 square units
- D 24 square units

End of Goal 2 Sample Items

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Answers to EOG Mathematics Grade 4 Sample Items

Goal 2

1. Objective 2.01

Identify points, lines, and angles (acute, right, and obtuse); identify in the environment.

Thinking Skill: Knowledge

Correct Answer: C

2. Objective 2.01

Identify points, lines, and angles (acute, right, and obtuse); identify in the environment.

Thinking Skill: Analyzing

Correct Answer: D

3. Objective 2.01

Identify points, lines, and angles (acute, right, and obtuse); identify in the environment.

Thinking Skill: Analyzing

Correct Answer: B

4. Objective 2.01

Identify points, lines, and angles (acute, right, and obtuse); identify in the environment.

Thinking Skill: Knowledge

Correct Answer: A

5. Objective 2.01

Identify points, lines, and angles (acute, right, and obtuse); identify in the environment.

Thinking Skill: Analyzing

Correct Answer: C

6. Objective 2.02

Use manipulatives, pictorial representations, and appropriate vocabulary (e.g. sides, angles, and vertices) to identify properties of plane figures; identify in the environment.

Thinking Skill: Analyzing

Correct Answer: C

7. Objective 2.02

Use manipulatives, pictorial representations, and appropriate vocabulary (e.g. sides, angles, and vertices) to identify properties of plane figures; identify in the environment.

Thinking Skill: Analyzing

Correct Answer: A

8. Objective 2.02

Use manipulatives, pictorial representations, and appropriate vocabulary (e.g. sides, angles, and vertices) to identify properties of plane figures; identify in the environment.

Thinking Skill: Analyzing

Correct Answer: D

Answers to EOG Mathematics Grade 4 Sample Items

Goal 2

9. Objective 2.02

Use manipulatives, pictorial representations, and appropriate vocabulary (e.g. sides, angles, and vertices) to identify properties of plane figures; identify in the environment.

Thinking Skill: Analyzing

Correct Answer: C

10. Objective 2.03

Use manipulatives, pictorial representations, and appropriate vocabulary (e.g. faces, edges, and vertices) to identify properties of polyhedra (solid figures); identify in the environment.

Thinking Skill: Analyzing

Correct Answer: B

11. Objective 2.03

Use manipulatives, pictorial representations, and appropriate vocabulary (e.g. faces, edges, and vertices) to identify properties of polyhedra (solid figures); identify in the environment.

Thinking Skill: Analyzing

Correct Answer: D

12. Objective 2.03

Use manipulatives, pictorial representations, and appropriate vocabulary (e.g. faces, edges, and vertices) to identify properties of polyhedra (solid figures); identify in the environment.

Thinking Skill: Applying

Correct Answer: D

13. Objective 2.03

Use manipulatives, pictorial representations, and appropriate vocabulary (e.g. faces, edges, and vertices) to identify properties of polyhedra (solid figures); identify in the environment.

Thinking Skill: Analyzing

Correct Answer: C

14. Objective 2.04

Identify intersecting, parallel, and perpendicular lines and line segments and their midpoints; identify in the environment.

Thinking Skill: Analyzing

Correct Answer: D

15. Objective 2.04

Identify intersecting, parallel, and perpendicular lines and line segments and their midpoints; identify in the environment.

Thinking Skill: Analyzing

Correct Answer: B

Answers to EOG Mathematics Grade 4 Sample Items

Goal 2

- 16. Objective 2.04**
Identify intersecting, parallel, and perpendicular lines and line segments and their midpoints; identify in the environment.
Thinking Skill: Analyzing **Correct Answer:** C
- 17. Objective 2.04**
Identify intersecting, parallel, and perpendicular lines and line segments and their midpoints; identify in the environment.
Thinking Skill: Analyzing **Correct Answer:** C
- 18. Objective 2.05**
Recognize congruent plane figures after geometric transformations such as rotations (turns), reflections (flips), and translations (slides).
Thinking Skill: Analyzing **Correct Answer:** A
- 19. Objective 2.05**
Recognize congruent plane figures after geometric transformations such as rotations (turns), reflections (flips), and translations (slides).
Thinking Skill: Analyzing **Correct Answer:** A
- 20. Objective 2.05**
Recognize congruent plane figures after geometric transformations such as rotations (turns), reflections (flips), and translations (slides).
Thinking Skill: Analyzing **Correct Answer:** D
- 21. Objective 2.05**
Recognize congruent plane figures after geometric transformations such as rotations (turns), reflections (flips), and translations (slides).
Thinking Skill: Analyzing **Correct Answer:** D
- 22. Objective 2.07**
Estimate and measure length, capacity and mass using these additional units: inches, miles, centimeters, and kilometers; milliliters, cups, and pints; kilograms and tons.
Thinking Skill: Analyzing **Correct Answer:** C
- 23. Objective 2.07**
Estimate and measure length, capacity and mass using these additional units: inches, miles, centimeters, and kilometers; milliliters, cups, and pints; kilograms and tons.
Thinking Skill: Analyzing **Correct Answer:** B

Answers to EOG Mathematics Grade 4 Sample Items

Goal 2

24. Objective 2.07

Estimate and measure length, capacity and mass using these additional units: inches, miles, centimeters, and kilometers; milliliters, cups, and pints; kilograms and tons.

Thinking Skill: Analyzing

Correct Answer: D

25. Objective 2.07

Estimate and measure length, capacity and mass using these additional units: inches, miles, centimeters, and kilometers; milliliters, cups, and pints; kilograms and tons.

Thinking Skill: Organizing

Correct Answer: C

26. Objective 2.07

Estimate and measure length, capacity and mass using these additional units: inches, miles, centimeters, and kilometers; milliliters, cups, and pints; kilograms and tons.

Thinking Skill: Analyzing

Correct Answer: D

27. Objective 2.08

Write and solve meaningful, multi-step problems involving money, elapsed time, and temperature; verify reasonableness of answers.

Thinking Skill: Analyzing

Correct Answer: C

28. Objective 2.08

Write and solve meaningful, multi-step problems involving money, elapsed time, and temperature; verify reasonableness of answers.

Thinking Skill: Applying

Correct Answer: D

29. Objective 2.08

Write and solve meaningful, multi-step problems involving money, elapsed time, and temperature; verify reasonableness of answers.

Thinking Skill: Integrating

Correct Answer: A

30. Objective 2.08

Write and solve meaningful, multi-step problems involving money, elapsed time, and temperature; verify reasonableness of answers.

Thinking Skill: Analyzing

Correct Answer: C

31. Objective 2.08

Write and solve meaningful, multi-step problems involving money, elapsed time, and temperature; verify reasonableness of answers.

Thinking Skill: Analyzing

Correct Answer: B

Answers to EOG Mathematics Grade 4 Sample Items

Goal 2

32. Objective 2.08

Write and solve meaningful, multi-step problems involving money, elapsed time, and temperature; verify reasonableness of answers.

Thinking Skill: Organizing

Correct Answer: B

33. Objective 2.08

Write and solve meaningful, multi-step problems involving money, elapsed time, and temperature; verify reasonableness of answers.

Thinking Skill: Integrating

Correct Answer: C

34. Objective 2.10

Measure the perimeter of rectangles and triangles. Determine the area of rectangles and squares using grids; find areas of other regular and irregular figures using grids.

Thinking Skill: Analyzing

Correct Answer: B

35. Objective 2.10

Measure the perimeter of rectangles and triangles. Determine the area of rectangles and squares using grids; find areas of other regular and irregular figures using grids.

Thinking Skill: Analyzing

Correct Answer: C

36. Objective 2.10

Measure the perimeter of rectangles and triangles. Determine the area of rectangles and squares using grids; find areas of other regular and irregular figures using grids.

Thinking Skill: Analyzing

Correct Answer: C

37. Objective 2.10

Measure the perimeter of rectangles and triangles. Determine the area of rectangles and squares using grids; find areas of other regular and irregular figures using grids.

Thinking Skill: Applying

Correct Answer: B

38. Objective 2.10

Measure the perimeter of rectangles and triangles. Determine the area of rectangles and squares using grids; find areas of other regular and irregular figures using grids.

Thinking Skill: Applying

Correct Answer: B