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Test Best

on the Iowa Tests of Basic Skills

Level 12

Contents

Acknowledgments

The other day while my family and I were stuck in our car in a traffic jam, my brother Jerry started to draw what he called the "future vehicle." It was the most unusual vehicle I had ever seen.

We had just heard a siren. It was an ambulance trying to make its way through the thick traffic jam on the highway. It had to zigzag through the slow-moving automobiles.

"You see, that's the problem with ambulances. They are too wide to easily navigate through heavy traffic. They should be elongated and thinner. Then they could fit between lanes of traffic. Look at my idea of an ambulance," said Jerry pointing to his unearthly drawing.

As traffic began to flow smoothly, Jerry continued to explain how his version of an ambulance would work. It was beginning to make sense to me. Dad said it was a great idea. Mom suggested that Jerry get a patent for his invention to make sure his idea was not stolen.

Jerry was excited and decided to find out how to get a patent. He learned that before you try to patent your idea, you must make sure that no one has a similar patent already. Some people hire an agent to check this for them. The agent checks with the U.S. Patent and Trademark Office, which has millions of patents registered. The agent must also check foreign patents. After the search, Jerry would have to fill out an application and include drawings and a description of his new vehicle. It could take as long as two years for the patent to be granted.

If Jerry receives his patent, he will be given a patent number that tells the date of the invention. Jerry will have certain rights as an inventor. No one other than the inventor can make or sell the patented item for 17 years.

Learning about patents was an interesting experience. Jerry learned that he is not the only one with an unusual invention. I hope his idea is successful and that it does not become just another number on the shelf in the U.S. Patent and Trademark Office in Arlington, Virginia.

20 Why does Jerry think ambulances should be thinner?

J They could be seen more easily.

K They could fit between traffic lanes.

L They could move more quickly.

M They would prevent traffic jams.

21 What does the word "elongated" mean in paragraph 3?

A Broken into parts

B Lengthened

C Removed

D Trimmed

22 Which of the following is a step in obtaining a patent?

J The inventor must write to a company to sell his or her idea.

K An agent must verify the date of the invention.

L The inventor must verify that there is no similar patent listed.

M An agent must be hired to work for the inventor.

23 An application for a patent must include

A a $200 fee.

B a working model of the invention.

C drawings and a description of the invention.

D a parent's or guardian's signature if the applicant is under 18 years of age.

24 What conclusion can be drawn from the last sentence of the passage?

J A patent number ensures the success of the invention.

K The U.S. Patent and Trademark Office is very old.

L Jerry's invention is unusual.

M Not all inventions are successes.

STOP

Answers

20 Ⓙ Ⓚ Ⓛ Ⓜ   22 Ⓙ Ⓚ Ⓛ Ⓜ   24 Ⓙ Ⓚ Ⓛ Ⓜ

21 Ⓐ Ⓑ Ⓒ Ⓓ   23 Ⓐ Ⓑ Ⓒ Ⓓ

Lesson 12: Using Measurement and Geometry

Directions: Darken the circle for the correct answer.

S1 A window ledge is 7 feet above the ground. **Which of the following describes the distance of the ledge from the ground?**
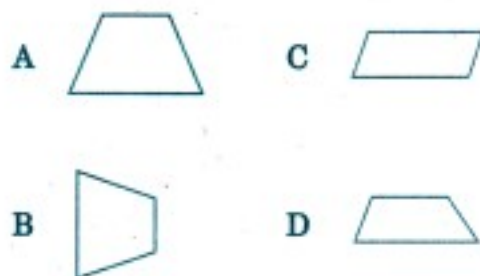
  A Between 1 and 2 yards

  B Less than 1 yard

  C Greater than 3 yards

  D Between 2 and 3 yards

THINK IT THROUGH The correct answer is D. Since there are 3 feet in a yard, and $7 \div 3 = 2\frac{1}{3}$ the correct answer is between 2 and 3 yards.

STOP

1 Which figure shown here is <u>not</u> a trapezoid?

A C

B D

4 In the congruent figures shown here, which part of the second figure corresponds to $\overline{BC}$?

J $\overline{NO}$ L $\overline{PQ}$

K $\overline{MN}$ M $\overline{OP}$

2 Which unit of measurement is best to use to describe the weight of a sack of potatoes?

J Feet   L Liters

K Ounces   M Pounds
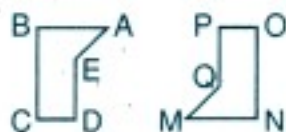
5 Which angle is greater than 90°?

A   C

B   D

3 The figure shown here has $\frac{3}{10}$ of its area shaded. How much is <u>not</u> shaded?

A $\frac{1}{2}$ C $\frac{3}{7}$

B $\frac{7}{10}$ D $\frac{3}{10}$
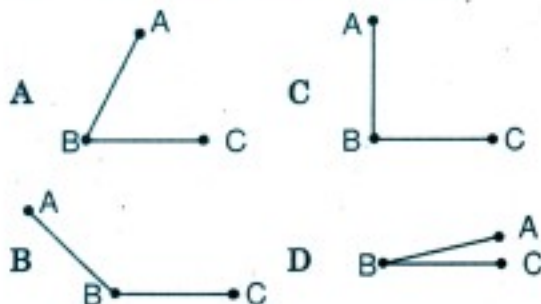
6 What is a reasonable estimate of the length of a bicycle?

J 4 meters   L 100 centimeters

K 5 feet   M 3 yards

STOP

This table below lists the prices of art supplies. Study the table. Then answer questions 4–6.

Art Supplies

	each	10-pack
tablet	$1.20	$10.00
chalk	$2.00	$18.00
markers	$3.25	$30.00
crayons	$1.50	$12.00
paint	$2.50	$20.00
scissors	$3.00	$25.00
glue	$0.75	$6.00
tissue paper	$2.25	$20.00
construction paper	$2.00	$18.00

4 Which of the following groups of items could be purchased with $5.00?

J Chalk, paint, and crayons

K Construction paper, glue, and markers

L Paint, glue, and a tablet

M Scissors, chalk, and glue

5 How much would 1 individual package of markers, crayons, and chalk cost altogether?

A $6.00   C $6.50

B $6.25   D $6.75

6 An art teacher is buying paints for 99 students. Which of these is the best buy?

J 99 single pack

K 10 packs of 10

L 9 packs of 10 and 9 single packs

M 8 packs of 10 and 19 single packs

Use the graph shown here to answer questions 7–9.

6th Grade Book Reports

Mystery — Sports — Adventure — Biography
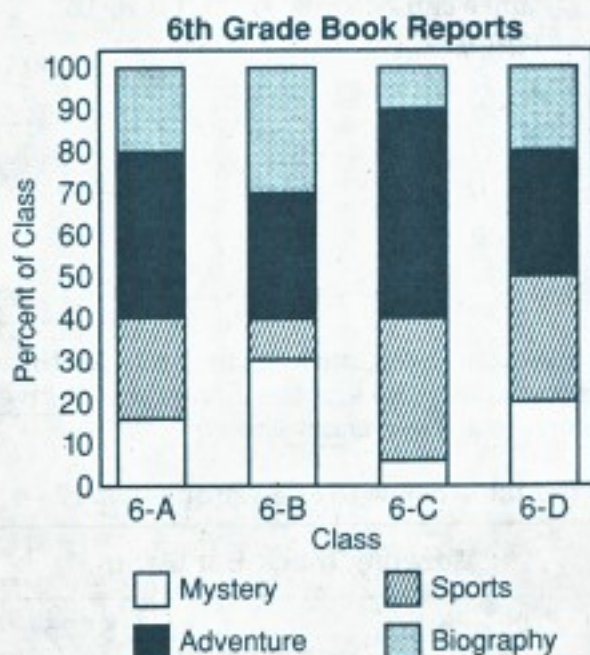
7 About what percent of class 6-A did <u>not</u> read biographies?

A 30%

B 40%

C 60%

D 80%

8 About what percent of class 6-C read adventure books?

J 5%

K 30%

L 40%

M 50%

9 In class 6-B, which kinds of books were read by the same percent of the class?

A Mystery and sports

B Sports and adventure

C Mystery, biography, and adventure

D Sports and biography

STOP

Answers

4 Ⓙ Ⓚ Ⓛ Ⓜ   6 Ⓙ Ⓚ Ⓛ Ⓜ   8 Ⓙ Ⓚ Ⓛ Ⓜ

5 Ⓐ Ⓑ Ⓒ Ⓓ   7 Ⓐ Ⓑ Ⓒ Ⓓ   9 Ⓐ Ⓑ Ⓒ Ⓓ

S1

$$253 + 968 =$$

A 1121
B 1211
C 1221
D N

STOP

S2

$$17$$
$$- 9$$

J 7
K 8
L 11
M N

STOP

For questions 1–21, darken the circle for the correct answer. Darken the circle for N if the answer is not given. Reduce answers that are fractions to lowest terms.

1

$$6 + 163 + 75 =$$

A 144
B 234
C 244
D N

2

$$\frac{5}{6}$$
$$+ \frac{1}{6}$$

J $\frac{5}{12}$
K $\frac{6}{12}$
L 1
M N

3

$$83$$
$$40$$
$$16$$
$$+ 77$$

A 206
B 216
C 217
D N

4

$$16.28 + 19.7 =$$

J 18.65
K 35.98
L 36.68
M N

5

$$\frac{2}{3} + \frac{2}{9} =$$

A $\frac{4}{12}$
B $\frac{4}{9}$
C $\frac{8}{9}$
D N

6

$$0.0705 + 0.406 =$$

J 0.1111
K 0.4765
L 1.111
M N

7

$$3683$$
$$+ 4775$$

A 7358
B 8458
C 8468
D N

8

$$759$$
$$- 273$$

J 476
K 486
L 586
M N

9

$$0.35 - 0.26 =$$

A 0.09
B 0.61
C 0.9
D N

GO ON

Answers
S1 Ⓐ Ⓑ Ⓒ Ⓓ   2 Ⓙ Ⓚ Ⓛ Ⓜ   5 Ⓐ Ⓑ Ⓒ Ⓓ   8 Ⓙ Ⓚ Ⓛ Ⓜ
S2 Ⓙ Ⓚ Ⓛ Ⓜ   3 Ⓐ Ⓑ Ⓒ Ⓓ   6 Ⓙ Ⓚ Ⓛ Ⓜ   9 Ⓐ Ⓑ Ⓒ Ⓓ
1 Ⓐ Ⓑ Ⓒ Ⓓ   4 Ⓙ Ⓚ Ⓛ Ⓜ   7 Ⓐ Ⓑ Ⓒ Ⓓ

S1

ELEVATION (In number of feet above sea level)
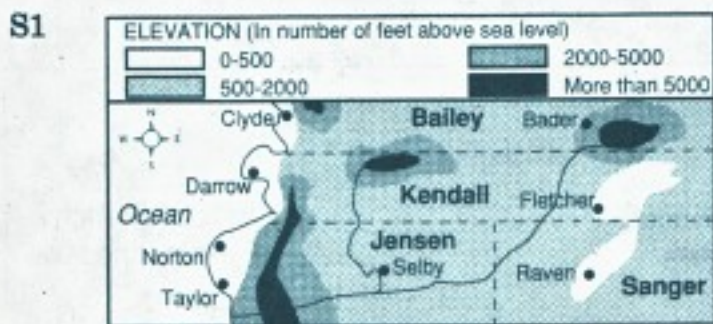
Which city has the highest elevation?

A Selby

B Bader

C Taylor

D Fletcher

For questions 1–10, darken the circle for the correct answer.

The maps below show an imaginary country made of up four states. Use the maps to answer questions 1–5.

1   What is the value of the iron ore produced in Dernia each year?

A $2,000,000

B $1,500,000

C $1,000,000

D $500,000

2   What is the shortest distance by railroad between Faramin and Oakton?

J 150 miles

K 325 miles

L 400 miles

M 375 miles

3   Which city probably uses transportation by water as well as by railroad?

A Roseville   C Kitt

B Cedar Grove   D Fleagle

4   In which state is fishing an important part of the economy?

J Dernia

K Glorin

L Halloran

M Shannara

5   Which product is most likely shipped out of Faramin by railroad?

A Copper   C Natural gas

B Fish   D Iron ore

Level 12

Answers

S1 Ⓐ Ⓑ Ⓒ Ⓓ   2 Ⓙ Ⓚ Ⓛ Ⓜ   4 Ⓙ Ⓚ Ⓛ Ⓜ

1 Ⓐ Ⓑ Ⓒ Ⓓ   3 Ⓐ Ⓑ Ⓒ Ⓓ   5 Ⓐ Ⓑ Ⓒ Ⓓ