

1 The weight in pounds of a laptop computer is shown in expanded notation.

$$(5 \times 1) + (3 \times 0.1) + (5 \times 0.01)$$

Written as a numeral, what is this weight in pounds?

- A** 5.035    **B** 5.35    **C** 0.535    **D** 5.035

2A

5 Diego wrote a number.

- ◆ The digit in the hundredths place was a 7.
- ◆ The digit in the ones place was a 2.
- ◆ The digit in the tenths place was a 9.

What number could Diego have written?

- A** 702.9    **B** 92.07    **C** 2.970    **D** 20.97

2A

2 A microwave oven costs five hundred eight dollars and twenty-nine cents. How is this number written in expanded notation?

- F**  $(5 \times 100) + (8 \times 10) + (2 \times 0.1) + (9 \times 0.01)$   
**G**  $(5 \times 100) + (8 \times 1) + (2 \times 0.01) + (9 \times 0.01)$   
**H**  $(5 \times 100) + (8 \times 1) + (2 \times 0.1) + (9 \times 0.001)$   
**J**  $(5 \times 100) + (8 \times 1) + (2 \times 0.1) + (9 \times 0.01)$

2A

6 A temperature in degrees Fahrenheit is shown in expanded notation.

$$(8 \times 10) + (5 \times 1) + (7 \times \frac{1}{10}) + (6 \times \frac{1}{100})$$

How is this temperature in degrees Fahrenheit written as a numeral?

- F** 85.67    **G** 857.6    **H** 85.76    **J** 8.576

2A

3 Ruby wrote the number shown.

2.375

Which is NOT a way to represent the value of the 5 in Ruby's number?

- A**  $(5 \times 0.001)$     **B** 0.005    **C**  $(5 \times \frac{1}{1,000})$     **D** 5.000

2A

7 The sound of an alarm was measured at 79.508 decibels. How is this number written in expanded notation?

- A**  $(7 \times 10) + (9 \times 1) + (5 \times 0.01) + (8 \times 0.001)$   
**B**  $(7 \times 10) + (9 \times 1) + (5 \times 0.1) + (8 \times 0.001)$   
**C**  $(7 \times 10) + (9 \times 1) + (5 \times 0.1) + (8 \times 0.01)$   
**D**  $(7 \times 10) + (9 \times 1) + (5 \times 0.01) + (8 \times 0.01)$

2A

4 The length in centimeters of a stylus is shown in expanded notation.

$$(1 \times 10) + (6 \times 1) + (9 \times 0.01) + (5 \times 0.001)$$

Written as a numeral, what is this length in centimeters?

- F** 16.095    **G** 16.95    **H** 16.905    **J** 160.95

2A

8 The diameter of a penny is 19.05 millimeters. How is this number written in expanded notation?

- F**  $(1 \times 10) + (9 \times 1) + (5 \times 0.1)$   
**G**  $(1 \times 100) + (9 \times 1) + (5 \times 0.01)$   
**H**  $(1 \times 10) + (9 \times 1) + (5 \times 0.01)$   
**J**  $(1 \times 10) + (9 \times 1) + (5 \times 0.001)$

2A

1 Clarence borrowed \$158 from his brother. He will pay him back \$40 each month until he has paid all the money back. About how many months will it take Clarence to pay his brother the money he owes?

- A 6 months
- B 3 months
- C 4 months
- D 2 months

3A

4 The largest bull on Ms. Segura's ranch weighs 2,784 pounds. The smallest bull weighs 2,219 pounds. Which is the best estimate of the difference between the weights of these bulls?

- F 600 pounds
- G 800 pounds
- H 500 pounds
- J 700 pounds

3A

2 At Mr. Greene's electronics store, tablet computers are listed for sale for \$212.99. Which is the best estimate of the cost of 6 of these computers?

- F \$1,400
- G \$220
- H \$1,000
- J \$1,200

3A

5 Umberto made a stack of 10 nickels. If a nickel is 1.95 millimeters thick, which is the best estimate of the height Umberto's stack of nickels?

- A 10 millimeters
- B 100 millimeters
- C 200 millimeters
- D 20 millimeters

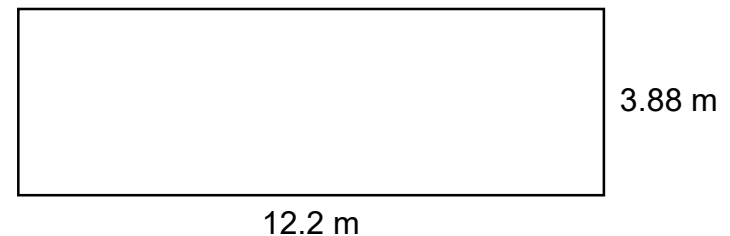
3A

3 Harshad bought a backpack for \$35.79, a sleeping bag for \$29.95, and a tent for \$55.39. Which is the best estimate of the total amount of money Harshad paid for the three items?

- A \$180
- B \$120
- C \$100
- D \$140

3A

6 A rectangular billboard has the dimensions shown.



Which is the best estimate of the perimeter of the billboard?

- F 28 m
- G 48 m
- H 32 m
- J 16 m

3A

**1** Marcia tried to list all the prime numbers between 20 and 40. Her list is shown.

23, 29, 37

Which number is missing from Marcia's list?

- A** 19    **B** 31    **C** 21    **D** 35

4A

**5** A pattern is shown.

5, 8, 11, 14, 17, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, ...

The next prime number to appear in this pattern will be –

- A** 29    **B** 27    **C** 25    **D** 23

4A

**2** Travion wrote a 2-digit number.

- ◆ The number is a composite number.
- ◆ The number is odd.

Which could be the number?

- F** 56    **G** 41    **H** 55    **J** 43

4A

**6** In which equation does the  $\square$  represent a composite number?

**F**  $(3 \times 8) + 5 = \square$

**G**  $(6 \times 7) - 3 = \square$

**H**  $(2 \times 9) + 1 = \square$

**J**  $(5 \times 6) - 7 = \square$

4A

**3** The quotient in which equation is prime?

**A**  $192 \div 12 = 16$

**B**  $525 \div 21 = 25$

**C**  $255 \div 15 = 17$

**D**  $363 \div 11 = 33$

4A

**7** Aaloka is thinking of a number.

- ◆ The number is a prime number.
- ◆ The number is greater than 53 but less than 61.

Aaloka is thinking of which number?

- A** 59    **B** 55    **C** 56    **D** 60

4A

**4** Which list shows only composite numbers?

**F** 15, 25, 35, 45

**G** 16, 22, 36, 47

**H** 13, 23, 33, 43

**J** 18, 29, 37, 49

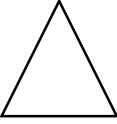
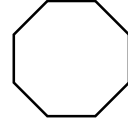

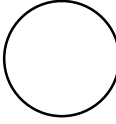
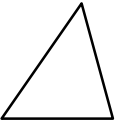
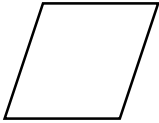

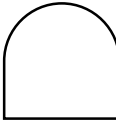
4A

**8** Which number can be subtracted from 99 to produce a difference that is a composite number?

- F** 62    **G** 52    **H** 38    **J** 54

4A

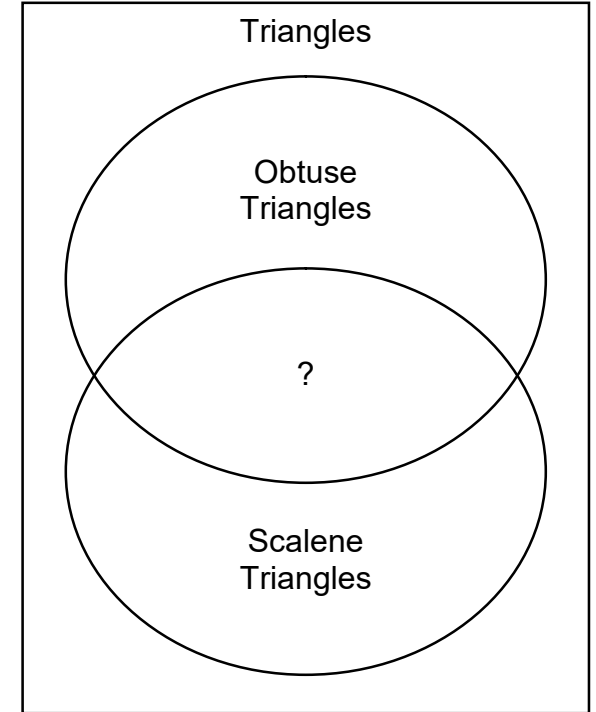
1 Forrest tried to classify eight shapes based on the types of angles they had. The classification table Forrest made is shown.

Has acute angles only	Has obtuse angles only	Has right angles only	Has no acute or obtuse angles
Shape A 	Shape C 	Shape E 	Shape G 
Shape B 	Shape D 	Shape F 	Shape H 

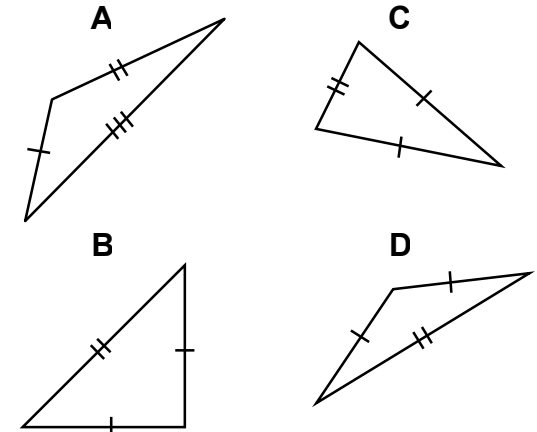
Which shape is NOT classified correctly?

- A** Shape B    **B** Shape D    **C** Shape F    **D** Shape G

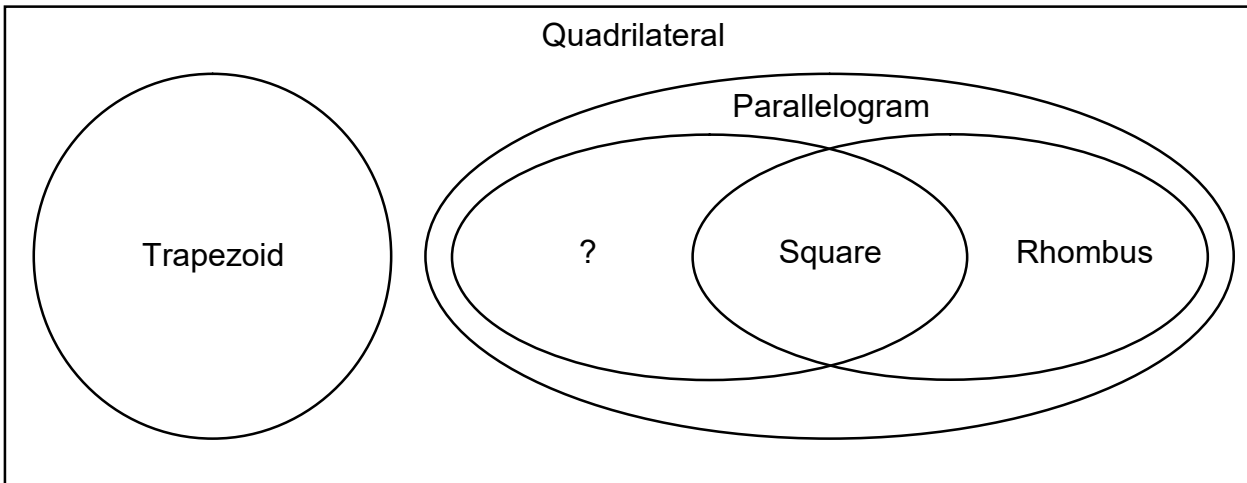
3 The diagram shows the relationship between some kinds of triangles.



Which triangle belongs in the intersection of *Obtuse Triangles* and *Scalene Triangles*?



2 A graphic organizer for classifying quadrilaterals is shown.



Which term is missing from the organizer?

- F** Hexagon    **G** Polygon    **H** Rectangle    **J** None of these

1 Ms. Clark's kitchen faucet leaks 2 pints of water each day. How many fluid ounces of water does her faucet leak each day?

- A 64 fluid ounces
- B 16 fluid ounces
- C 32 fluid ounces
- D 12 fluid ounces

7A

5 An artist made a collage using 18 ounces of broken tile, 12 ounces of pottery shards, and 7 ounces of sea glass. What was the total weight of these items?

- A 3 pounds 7 ounces
- B 2 pounds 5 ounces
- C 3 pounds 1 ounce
- D 2 pounds 8 ounces

7A

2 Gabriel jogged 0.5 kilometer each day for 13 days. How many meters did Gabriel jog during these 13 days?

- F 6,500 meters
- G 500 meters
- H 650 meters
- J 13,000 meters

7A

6 The lengths of two sizes of paperclips are listed.

- ♦ Large paperclip: 5 centimeters
- ♦ Small paperclip: 15 millimeters

What is the difference in length of these two sizes of paperclips in millimeters?

- F 45 mm    G 485 mm    H 20 mm    J 35 mm

7A

3 Huifang's pet snake is  $1\frac{1}{2}$  yards long. Measured in inches, how long is Huifang's snake?

- A 72 inches
- B 150 inches
- C 18 inches
- D 54 inches

7A

7 Bianca drinks 3 quarts of orange juice each month. How many cups of orange juice does Bianca drink each month?

- A 12 cups
- B 6 cups
- C 24 cups
- D 48 cups

7A

4 Tyler bought a cantaloupe that weighed 2.5 pounds. How many ounces did the cantaloupe weigh?

- F 25 ounces
- G 30 ounces
- H 40 ounces
- J 35 ounces

7A

8 A recycling center processes 8 tons of glass each hour. How many pounds of glass does the recycling center process each hour?

- F 8,000 pounds
- G 16,000 pounds
- H 80,000 pounds
- J 18,000 pounds

7A

**1** Mr. Lopez owns a home, a vacant lot, a farm, and a vehicle. He will have to pay property tax on the value of all of these except –

- A** the home            **C** the farm
- B** the vacant lot    **D** the vehicle

10A

**2** Which kind of tax is paid on the amount of money a person earns each year?

- F** Income tax        **H** Property tax
- G** Sales tax         **J** Payroll tax

10A

**3** Miranda’s monthly expenses exceed her monthly income.

Monthly Income	
Babysitting.....	\$100
Monthly Expenses	
Healthy snacks.....	\$20
Gym membership.....	\$30
Entertainment.....	\$60
Bus fare.....	\$5

To help balance her budget, Miranda should first consider –

- A** buying unhealthy snacks
- B** not going to the gym
- C** reducing her entertainment costs
- D** not traveling by bus

10E

**4** Josephina’s net income last month was \$2,450. The table shows the budget she created for the month.

Insurance	\$325
Utilities	\$315
Food	\$575
Rent	\$950
Other	?

What amount should be in the “Other” category for Josephina’s budget to be balanced?

- F** \$325    **G** \$275    **H** \$315    **J** \$285

10F

**5** Which answer choice provides a simple explanation of the difference between gross income and net income?

- A** Net income is a type of property tax. Gross income is a type of sales tax.
- B** Gross income is the money a worker earns. Net income is the money the worker receives after taxes are deducted from the gross.
- C** Gross income is a type of sales tax. Net income is a type of property tax.
- D** Net income is the money a worker earns. Gross income is the money the worker receives after taxes are deducted from the net.

10B

**6** Zachary’s weekly expenses are greater than his weekly income. What can Zachary do to help balance his budget?

- F** Try to increase expenses and decrease income
- G** Try to decrease expenses and increase income
- H** Try to increase expenses and increase income
- J** Try to decrease expenses and decrease income

10E