

I 1.

The figure above shows a wooden cube with one corner cut off and shaded. Which of the following drawings shows how this cube would look when viewed from directly above it?

E

A 2
B 7

I g

D D

.L
2,

If AB is a straight line, what is the measure in degrees of angle BCD ?

D 80

E 100

3.

The speed of sound is approximately 340 meters per second. How long will it take before the sound of a car horn reaches your ears if the car is 714 meters away?

A 0.21 seconds

B 2.1 seconds

C 21 seconds

D 210 seconds

E None of these

4.

resulting figure
have?

A 1
3 3

C o

D 9
3 12

S~~ Find the sum:

3 weeks 5
days
+ 9 weeks 6
days

A 12 weeks 1
day

B 12 weeks 4
days

C 13 weeks 1 day

D 13 weeks 4 days

E 13 weeks 11
days

\ /
\ /

 X

\ /

Taught:

Four identical equilateral triangles
used:

have been arranged as shown above.
How many lines of symmetry does the

Calculator

@

7 230 is equal
to

A 7.03

B 7.15

C 7.23

D 7.3

Taupt:
this year
before
never
C^levlator

used:

E 7.6

7,

If there are 300 calories
in 100 grams of a certain
food, how many calories are
there in a 30 8ram portion
of that food?

A 90

E 9000

98

According to the scale shown,
the length of side BC of a
rectangle ABCD (to the NEAREST
CENTIMETER) is

A 5 centimeters

3 6 centimeters

7 centimeters

D 8 centimeters

E g centimeters

There are 227 students in a school.
Every student in the school belongs
to either the music club or the
sports club, and some students belong
to both clubs. The music club has 120
members, and 36 of these are also
members of the sports club. What is
the total membership of the sports
club?

A 36

B 84

C 107

D 120

to $12z + 16y$ is equal

A $12(t + 16y)$

B $4(3z + 4y)$

C $4(3r + 6y)$

D $2(6z + 16y)$ yes

E $12(3z + 4y)$

~~,

There are five black buttons and one red button in a Jar. If you pull out one button at random, what is the probability that you will get the red button?

A 0

B $\frac{6}{7}$

C $\frac{1}{6}$

D $\frac{1}{6}$

E $\frac{1}{7}$

$7(-3) - (1)$ is equal to

A -21 ;

B $-\frac{5}{8}$

C $\frac{3}{8}$

D 8

E

{Ty i9 between

A group of children was divided into 7 teams with nine in each team. Later, the same group of children was divided into teams with seven in each team. How many teams were there then?

B. 3

2 is equal to
7

One bell rings every 8 minutes, a second bell rings every 12 minutes. When do they both ring at exactly 12 o'clock. In how many minutes will they next ring together?

~~.

A solid plastic cube with edges 1 centimeter long weighs 1 gram. How much will a solid cube of the same plastic weigh if each edge is 2 centimeters long?

What is the SURFACE AREA of this solid rectangular box?

Taught:
this year _
before _
never

Calculator used:

A 50 square centimeters yes _
B 100 square centimeters

C 114 square centimeters

D 216 square centimeters

E 228 square centimeters

~~.

Which of the following is FALSE when a, b, and c are different real numbers?

A $(a + b) + c \neq a + (b + c)$
B $ab = ba$
C $a + b = b + a$
D $(ab)c = a(bc)$
E $a - b = 2b - a$

The area of the shaded figure,
to the nearest square unit, is

A 23 square units

B 20 square units
Calculator used:

C 18 square
units

D 15 square units

E 12 square units

A bowling ball travels at a constant speed of v meters per second. The distance d in meters traveled in t seconds is given by $d=vt$. In the table below - is equal to

10

12 Calculator used:

14

None of these

Which of the following operations with whole numbers will give a whole number?

AL'4AYS

I Addition

II

Multiplication

III Division

A I only

B II only

C III only

D I and II only

E II and III only

Time (in minutes) Taught:
this year
before

The graph shows the time of travel by pupils from home to school. How many pupils must travel for MORE than

10

minutes?

- A 2
- B 5
- C 7
- D 8

E 15
~~g

A half-turn about O is applied to the figure above. Which of the figures below is the result?

A NI

1 m

B

1N

1 / Targht:
01 this year _

berore

D

_ _ H_

t_i_ _ _ _ _

If a PRS maps onto A PR'S under a reflection (flip) over line t, which of these statements about lengths must be true? Taught.
A length of PS = length of PR
SlUS length of FFr
3 length of RS = length of PR'

C length of ~~~ = length of NTS

5n1S year

never

D length of -R'& = length of PS Calculator used:

E len5th of a~~ = length of ~~~r :0

3 j 6 X

7] Q 1 35g

The table above shous the values of z and y, uhere _ is proportional to y. Ghat are the values of P and Q?

A P = 14 and Q = 31

B P = 10 and Q = 14 Taught:
this year

C P = 10 and Q = 31

		before	
D	P = 14 and Q = 15		never _
E	P = 15 and Q = 14		Calculator used:
		yes	
		no	

, \ , ' @R
1 \ t \ 1 /

F 4 - - t ~ - 9 G ~ ~ 9 Tau pt:

this year _
before _

8 -ten v and w as shown zn
the
figure above, what is D3,
the vector from D to B.

28.

1 1

1.5 m

Which of the following is
the closest approximation t:
the ?' Ça of the rectangle with
measurements g.ven?

- A 48 m2
- B 54 m2
- C 56 m2

D 63 m2 Calculator

used:

E 72 m2

5/ ~ ~ 0

Triangles PiR and STU are similar. How long is S!?:?

A 5

B 10

C 12.5

D 15

E 25

~ ~ .

A shopkeeper has z kg of tea in stock. He sells 15 kg and then receives a new lot weighing $2y$ kg. What weight of tea does he now have?

C $z - 15 + 2y$

Taught:

E None of these

~ ~ .

/

/S
/

A PQT can be rotated (turned) onto A SQR. The center o; ' rotation is

A point P

B point Q

C point R

D point S

E point T

Use this graph to answer

questions 33 and 34.

~~.

Three hours after starting, car A is how many kilometers ahead of car 3?

A 2

B 10

C 15

D 20

E 25

How much longer does it take for car B to go 50 kilometers than it does for car A to go 50 kilometers?

A 1 hour 15 minutes

B 1 hour 30 minutes

C 2 hours

D

E

2 hours 30 minutes

2 hours 35 minutes