

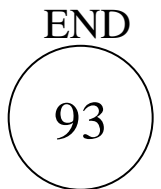
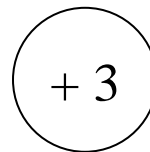
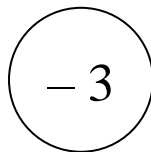
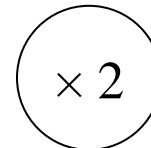
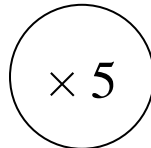
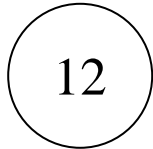
Grade 6 Whole Numbers

1. The sum of five *different* positive whole numbers is 500.
What is the largest possible value for one of these whole numbers?



2. Draw the path to get the END number.

START



3. I am a whole number between 340 and 250.
If you divide me by 57, the remainder is 0.
What number am I ?!

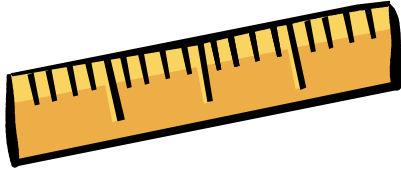
4. Complete the magic square below.
What is the sum of the missing whole numbers?



		56
63	35	
14		42

Grade 6 Measurement

1. Find the number of feet in $1\frac{1}{4}$ miles.



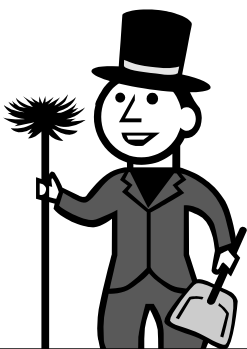
2. A 9" by 9" square has a corner removed that measures 2" by 2".
What is the new area of the larger shape?



3. You need 2 gal 2 pt of water. However, you only have 4 qt 5 pt.
How much more water do you need?
Change to larger units whenever possible.



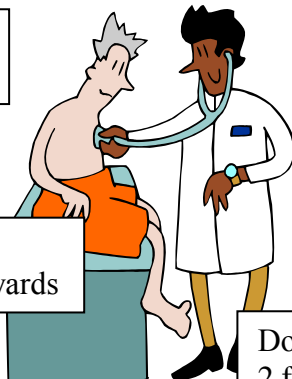
4. What is the total of all five peoples' heights?



Chimney Sweeper's height:
3 feet less than 3 yards

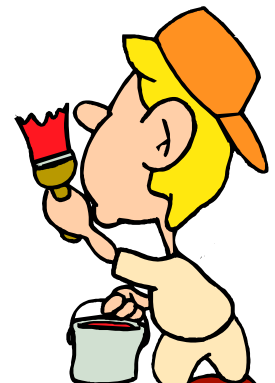


Clown's height:
3 feet less than $2\frac{1}{3}$ yards



Patient's height:
2 feet less than $2\frac{2}{3}$ yards

Doctor's height:
2 feet less than $2\frac{3}{4}$ yards




Painter's height:
2 feet less than $2\frac{1}{2}$ yards

Grade 6 Fractions



- 1.** On the moon you can jump 6 times as high as you can on Earth.
 On Jupiter, you cannot jump as high as you can on Earth.
 In fact, you can jump $2\frac{2}{3}$ times as high on Earth as you can on Jupiter.
 If you can jump 9 feet on the Moon, how high can you jump on Jupiter?

- 2.** Multiply across. Multiply down.
 Find the number in the circle.
 Give answers in lowest terms.

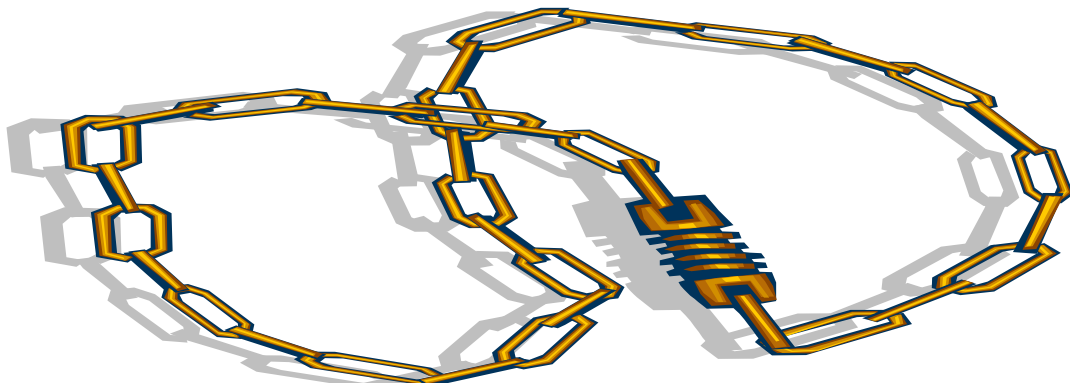
$\frac{1}{8}$	$\frac{2}{3}$	
$\frac{4}{3}$	$\frac{3}{2}$	
		

- 3.** Find the sum.

$$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{8}$$

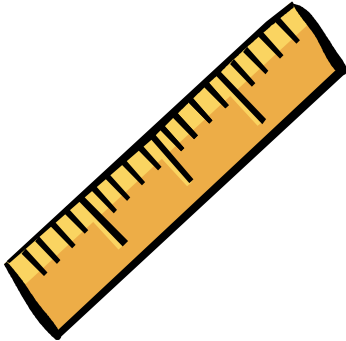
- 4.** How many feet long is a piece of extra heavy-duty chain with 117 link?

Chain	Number of Links (per foot)
Light Duty	$12\frac{1}{2}$
Regular Duty	12
Heavy Duty	$10\frac{2}{3}$
Extra Heavy Duty	$9\frac{3}{4}$

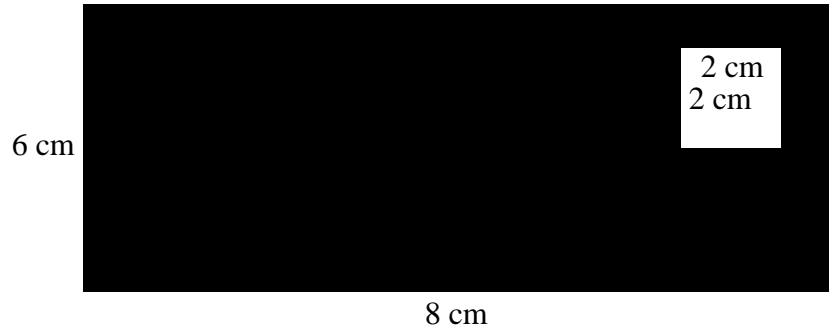


Grade 6 Geometry

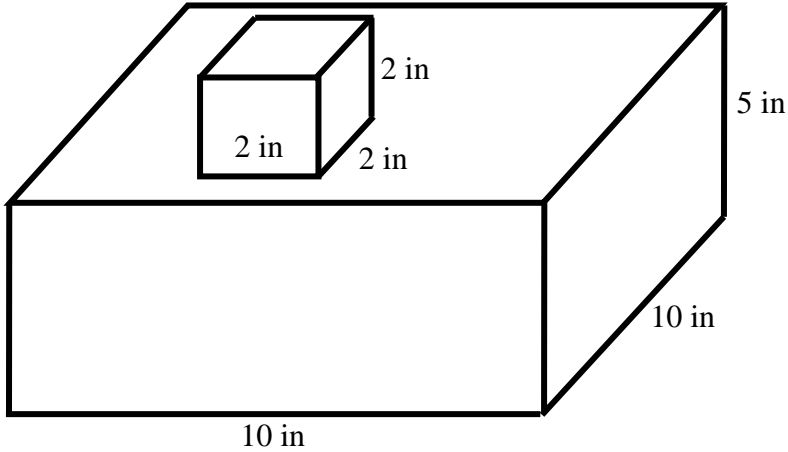
1. 1 cubic yd = _____ cubic ft



2. Find the area of the shaded region.



3. Find the total volume.



4. A rectangle has a length of 2 ft 6 in.
The same rectangle has an area of 600 in^2 .
What is the perimeter of the rectangle?
Give your answer in inches.



Grade 6 Decimals & Percents

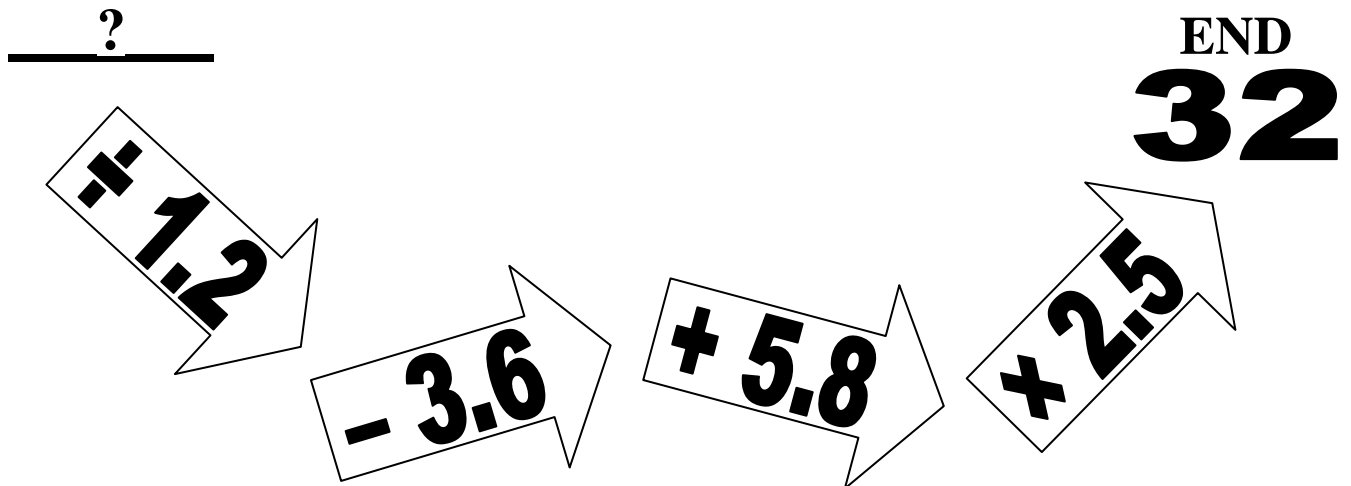
1. Abbie made 3 out of 6 shots on Wednesday.
She made 3 out of 7 shots on Friday and 7 out of 7 on Saturday.
What was her total shooting percentage for the three games?



2. I am a percent.
When you write me as a decimal and divide me by 0.05, the quotient is 16.
What percent am I?

START

3. Work backwards through the path to find the START number.



4. 'School A' has 150 students. 30% of School A's students like hotdogs for lunch.
'School B' has 250 students. 46% of School B's students like hotdogs for lunch.
What is the total percentage of students from both School A and School B that like hotdogs for lunch?

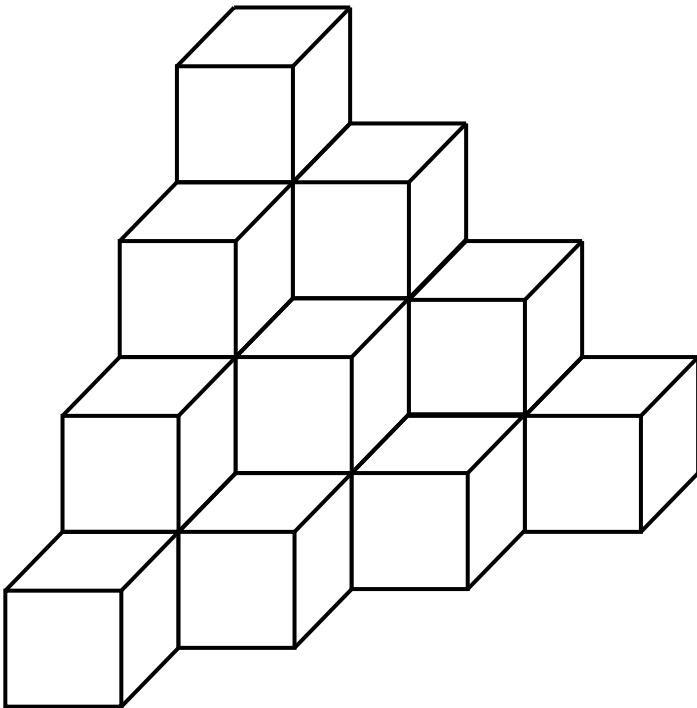


Grade 6 Brain Teasers

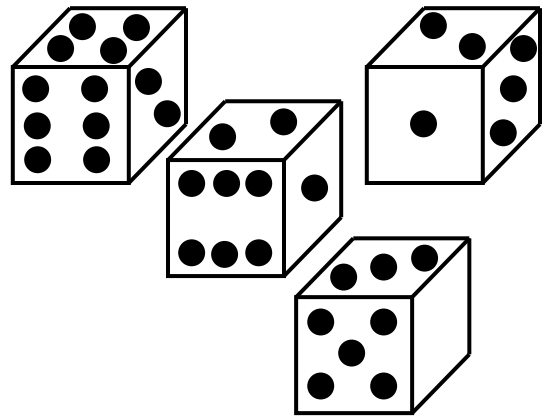
- 1.** Brenda had less than \$5 in dollar bills. She traded her dollar bills into an equal number of nickels and dimes. How many dollar bills did Brenda have?



- 2.** How many blocks are in this stack?
Hint: there are more than 15!



- 3.** Here are three different views of one cube. How many dots should there be on the blank face?



- 4.** Suppose that there are two machines working at the same time. Each machine can be set to produce either 90 small boxes every 30 minutes or 100 large boxes every hour. 1,350 small boxes and 1,350 large boxes are needed. One machine is set to produce large boxes and the other is set to produce small boxes. Both machines begin operating at the same time. How many hours sooner will the machine producing the small boxes finish?



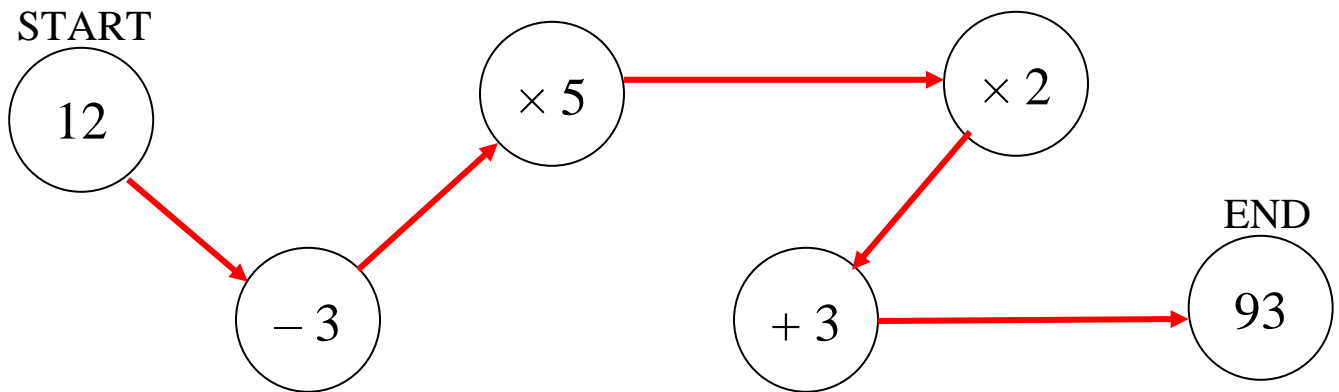
Grade 6 Whole Numbers (ANSWERS)

1. The sum of five *different* positive whole numbers is 500.
What is the largest possible value for one of these whole numbers?

490



2. Draw the path to get the END number.



3. I am a whole number between 340 and 350.
If you divide me by 57, the remainder is 0.
What number am I ?!

342

4. Complete the magic square below.
What is the sum of the missing whole numbers?

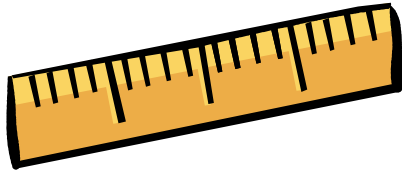
105



28	21	56
63	35	7
14	49	42

Grade 6 Measurement (ANSWERS)

1. Find the number of feet in $1\frac{1}{4}$ miles.



6600

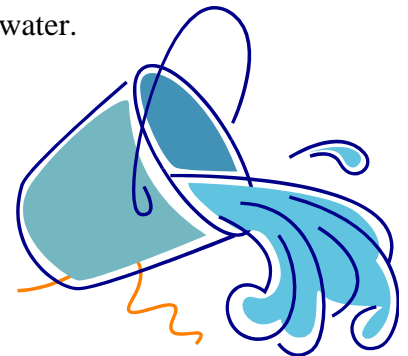
2. A 9" by 9" square has a corner removed that measures 2" by 2".
What is the new area of the larger shape?



77 in²

3. You need 2 gal 2 pt of water. However, you only have 4 qt 5 pt of water.
How much more water do you need?
Change to larger units whenever possible.

5 pt



4. What is the total of all five peoples' heights?

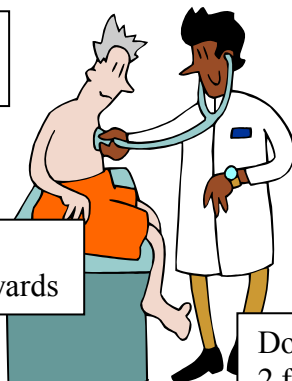


Chimney Sweeper's height:
3 feet less than 3 yards

27 ft 9 in

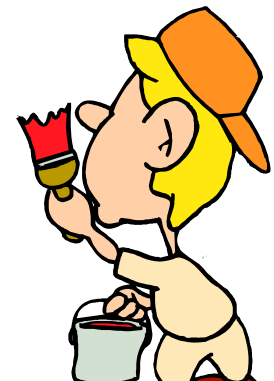


Clown's height:
3 feet less than $2\frac{1}{3}$ yards



Patient's height:
2 feet less than $2\frac{2}{3}$ yards

Doctor's height:
2 feet less than $2\frac{3}{4}$ yards



Painter's height:
2 feet less than $2\frac{1}{2}$ yards

Grade 6 Fractions (ANSWERS)



- 1.** On the moon you can jump 6 times as high as you can on Earth.
 On Jupiter, you cannot jump as high as you can on Earth.
 In fact, you can jump $2\frac{2}{3}$ times as high on Earth as you can on Jupiter.
 If you can jump $4\frac{1}{5}$ feet on the Moon, how high can you jump on Jupiter?

$3/10$ ft

- 2.** Multiply across. Multiply down.
 Find the number in the circle.
 Give answers in lowest terms.

$\frac{1}{8}$	$\frac{2}{3}$	$\frac{1}{12}$
$\frac{4}{3}$	$\frac{3}{2}$	2
$\frac{1}{6}$	1	$\frac{1}{6}$

- 3.** Find the sum.
 Write your answer as an improper fraction.

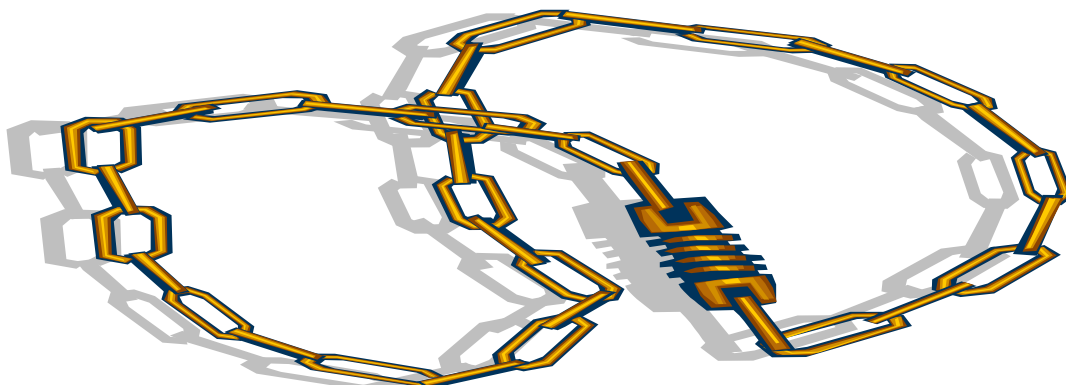
$$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{8}$$

$\frac{29}{24}$

- 4.** How many feet long is a piece of extra heavy-duty chain with 117 links?

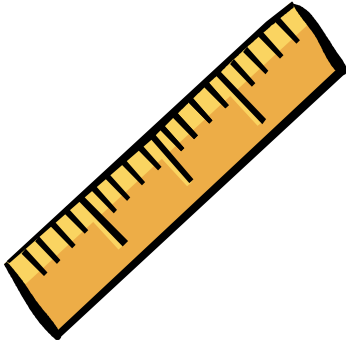
Chain	Number of Links (per foot)
Light Duty	$12\frac{1}{2}$
Regular Duty	12
Heavy Duty	$10\frac{2}{3}$
Extra Heavy Duty	$9\frac{3}{4}$

12 ft

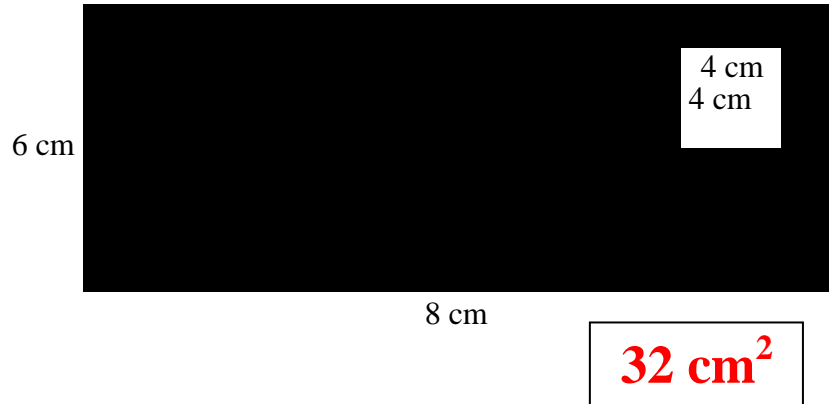


Grade 6 Geometry (ANSWERS)

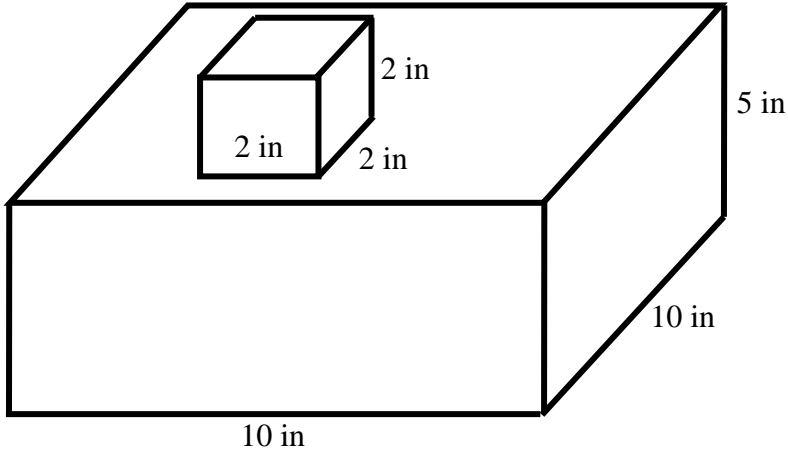
1. 1 cubic yd = cubic ft



2. Find the area of the shaded region.



3. Find the total volume.



508 in³

4. A rectangle has a length of 2 ft 6 in.
The same rectangle has an area of 600 in².
What is the perimeter of the rectangle?
Give your answer in inches.

100 in



Grade 6 Decimals & Percents (ANSWERS)



1. Abbie made 3 out of 6 shots on Wednesday.
She made 3 out of 7 shots on Friday and 7 out of 7 on Saturday.
What was her total shooting percentage for the three games?

65%

2. I am a percent.
When you write me as a decimal and divide me by 0.05, the quotient is 16.
What percent am I?

80%

START

3. Work backwards through the path to find the START number.

12.72

END
32

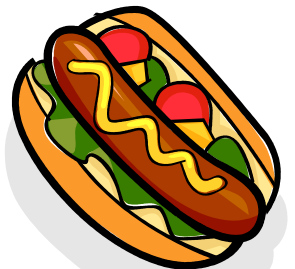
-1.2

-3.6

+5.8

x2.5

4. 'School A' has 150 students. 30% of School A's students like hotdogs for lunch.
'School B' has 250 students. 46% of School B's students like hotdogs for lunch.
What is the total percentage of students from both School A and School B that like hotdogs for lunch?



40%

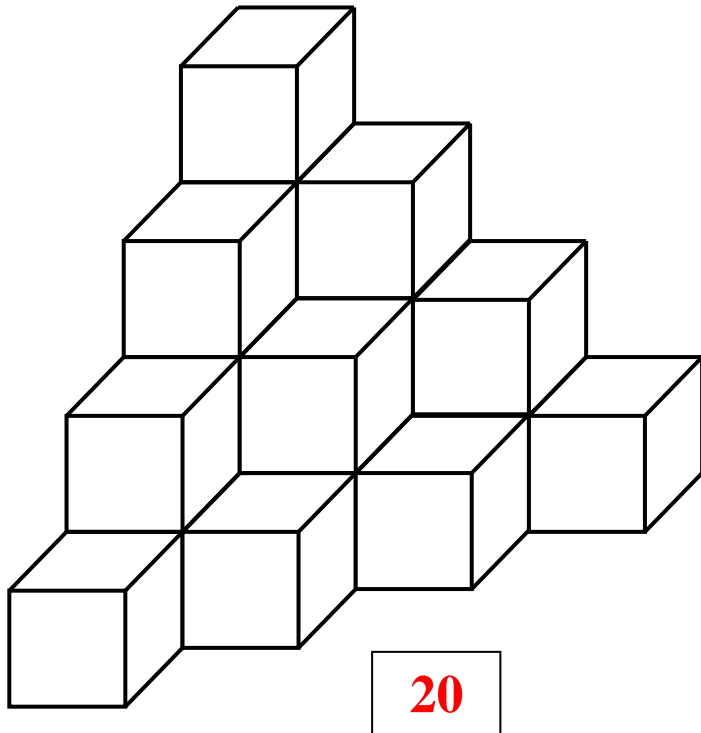
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How many dollar bills did Brenda have?

3

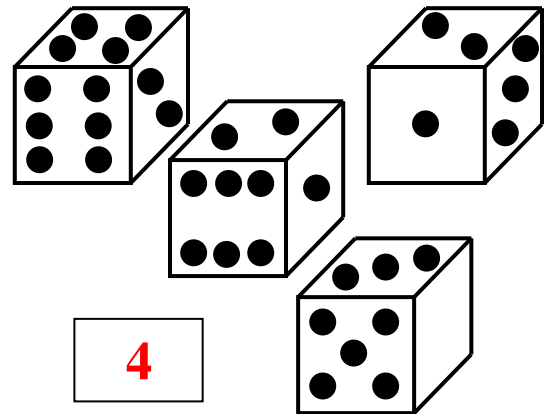


2. How many blocks are in this stack?
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20

3. Here are three different views of one cube.
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4

4. Suppose that there are two machines working at the same time.
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1,350 small boxes and 1,350 large boxes are needed.
One machine is set to produce large boxes and the other is set to produce small boxes.
Both machines begin operating at the same time.
How many hours sooner will the machine producing the small boxes finish?

6

