

Top 10 Difficult Questions for Grade 8 Mathematics

Question Number: 1

Juan has forty dollars in his jacket. Every day he spends half of the money that is in the jacket. On the first day (Monday), he spends \$20 leaving him with twenty dollars. On what day will he start with less than \$3.00 in his jacket?

- A) Friday
- B) Thursday
- C) Tuesday
- D) Saturday

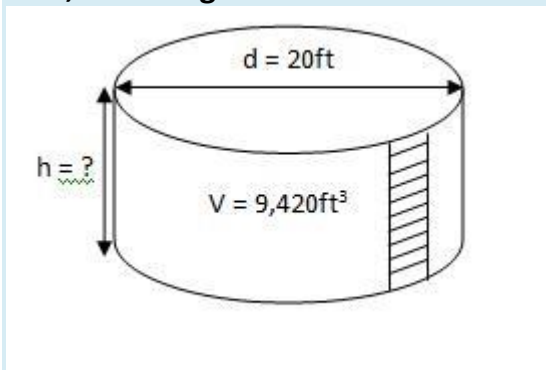
Question Number: 2

Mr. Smith is 81 years older than his grandson, Victor. In 3 years, Mr. Smith will be four times as old as Victor. How old is Victor now?

- A) 21 years old
- B) 22 years old
- C) 24 years old
- D) 27 years old

Question Number: 3

Andy's job is to attach a ladder to a water tank. The water tank is a 20ft wide cylinder and has a volume of $9,420\text{ft}^3$. If the length of the ladder is equal to the height of the water tank, how long is the ladder?



- A) 30ft
- B) 9.5ft
- C) 8.9ft
- D) 11ft

Question Number: 4

Which of the four functions has the largest rate of change?

Function 1:

X	Y
0	4
1	8
2	12

Function 3:

X	Y
0	3
1	6
2	9

Function 2: $y = 2x + 3$

Function 4: $y = 3.5x$

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

Question Number: 5

Suppose three days ago was Tuesday. What day of the week will it be 90 days from today?

- A) Monday
- B) Thursday
- C) Friday
- D) Saturday

Question Number: 6

Al fills an ice cream cone to the top edge. The diameter of the ice cream cone is 2 inches and its height is 6 inches. Don fills a bowl ($V = 5$ cubic inches) with ice cream. Al has how much more ice cream than Don?

- A) 1.2in^3
- B) 1.28in^3
- C) 1.1in^3
- D) 1in^3

Question Number: 7

Kelsey got a 74% on her Social Studies test. The test had 50 questions. How many questions did she NOT answer correctly?

- A) 12
- B) 50
- C) 13
- D) 37

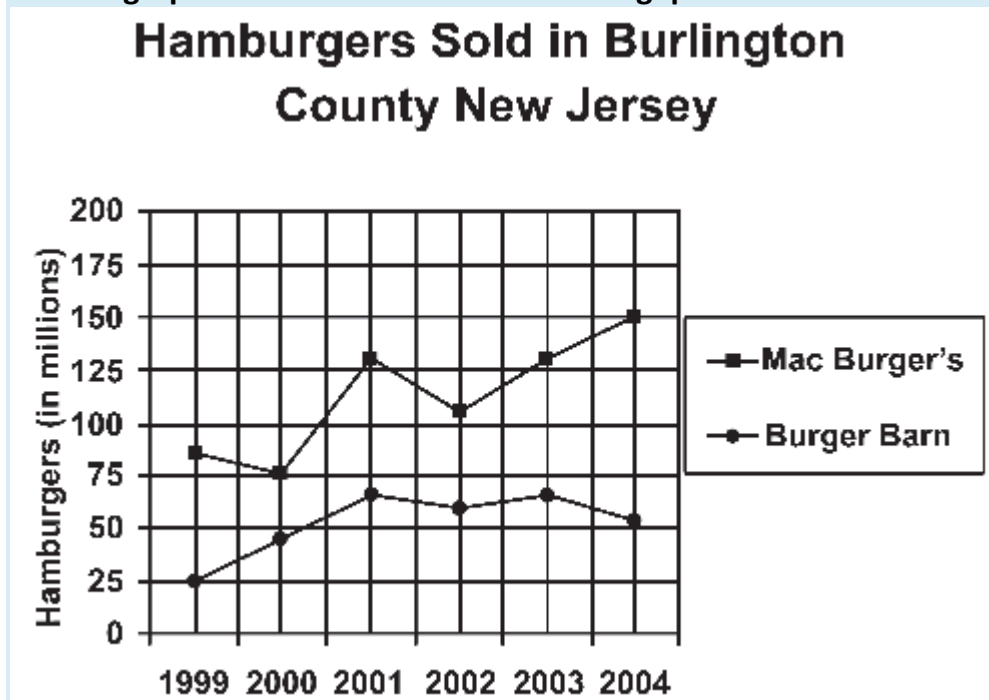
Question Number: 8

What is the volume of a cone with the height of 6 inches and the diameter of 4 inches?

- A) 25.20in^3
- B) 25.12in^3
- C) 26in^3
- D) 25in^3

Question Number: 9

Use the graph below to answer the following question.

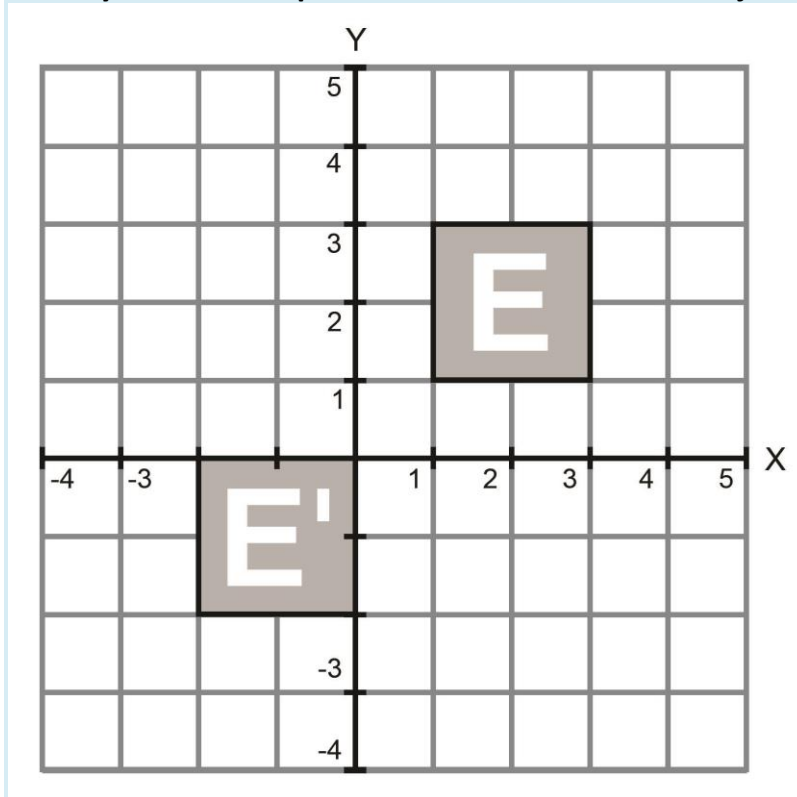


During what time period did the sales of Burger Barn's hamburgers remain virtually unchanged?

- A) 1999-2001
- B) 2000-2002
- C) 2001-2003
- D) None of the above

Question Number: 10

In a coordinate plane a figure can be reflected by a line other than the x- or y - axis. Identify the linear equation for the reflection of Object E and E'?



- A) $y = -x + 1$
- B) $y = 0.5x$
- C) $y = 0$
- D) $y = x$