



# ASVAB-SECTION-6<sup>Q&As</sup>

ASVAB Section Six : Mathematics Knowledge

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### QUESTION 1

The cube of 5 is \_\_\_\_\_.

- A. 125
- B. 25
- C. 15
- D. 50

Correct Answer: A

Explanation:

The cube of 5 =  $5 \times 5 \times 5 = 125$ .

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### QUESTION 2

$2.8 \times 102 =$  \_\_\_\_\_.

- A. 280
- B. 56
- C. 2,800
- D. 28

Correct Answer: A

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### QUESTION 3

A circle measures 12 feet in diameter.

What's its area to the nearest foot?

- A. 452
- B. 24
- C. 113
- D. 48

Correct Answer: C

Explanation:



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The area of a circle equals  $\pi$  times the radius squared. The radius is  $\frac{1}{2}$  the diameter.

$$A = \pi r^2. A = \pi 6^2 = 36\pi.$$

If  $\pi$  is approximately 3.14, the area of the circle is approximately  $3.14 \times 36$  or 113 feet.

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#### QUESTION 4

What is the value of  $(0.2)^3$ ?

- A. 0.008
- B. 0.8
- C. 0.006
- D. 0.6

Correct Answer: A

Explanation:

$(0.2)^3$  means  $0.2 \times 0.2 \times 0.2$

Multiply the first two numbers:

$$0.2 \times 0.2 \times 0.2 = 0.04 \times 0.2$$

Now multiply the remaining two numbers:

$$0.04 \times 0.2 = 0.008$$

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#### QUESTION 5

Which of the following fractions is the largest?

- A.  $\frac{2}{5}$
- B.  $\frac{3}{8}$
- C.  $\frac{7}{10}$
- D.  $\frac{13}{16}$

Correct Answer: D

Explanation:

Find a common denominator for the fractions. In this case, 80 work for all the fractions.

Convert all the fractions:  $\frac{2}{5} = \frac{32}{80}$ ;  $\frac{3}{8} = \frac{30}{80}$ ;  $\frac{7}{10} = \frac{56}{80}$ ; and  $\frac{13}{16} = \frac{65}{80}$ .

Comparing the fractions, you can see that  $\frac{13}{16}$  ( $\frac{65}{80}$ ) is the largest fraction.

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