

No one tells you that the SAT is easy! But it's true; just look at some of these easy-level SAT math questions. Answers and explanations are included.

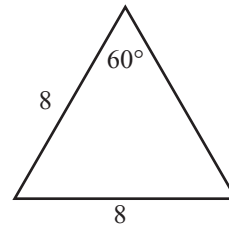
1. If  $3x + y = 10$  and  $y = 7x$ , then  $x =$

- (A)  $1/10$
- (B)  $7/10$
- (C) 1
- (D)  $10/7$
- (E) 10

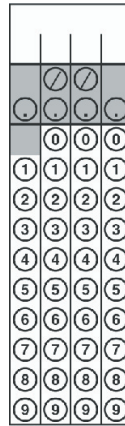
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2. If Cal walks 4 miles per hour, how many miles does he walk in 45 minutes?

- (A)  $3/4$
- (B) 1
- (C) 2.5
- (D) 3
- (E) 11.25



3. What is the perimeter of the triangle?




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4. Which of the following numbers is between  $\frac{1}{5}$  and  $\frac{1}{6}$  ?

- (A) 0.15
- (B) 0.18
- (C) 0.21
- (D) 0.22
- (E) 0.24

# POWERSCORE SAT FREE HELP AREA

## SAT Math Solutions

Easy

Each of the questions is explained below.

1. If  $3x + y = 10$  and  $y = 7x$ , then  $x =$

- (A)  $1/10$
- (B)  $7/10$
- (C) 1
- (D)  $10/7$
- (E) 10

Substitute  $7x$  for  $y$  in the first equation:

$$3x + y = 10$$

$$3x + 7x = 10$$

$$10x = 10$$

$$x = 1$$

2. If Cal walks 4 miles per hour, how many miles does he walk in 45 minutes?

- (A)  $3/4$
- (B) 1
- (C) 2.5
- (D) 3
- (E) 11.25

First, change 1 hour into 60 minutes.

Next, set up a proportion:

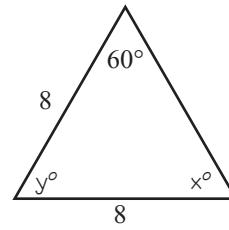
$$\frac{4 \text{ miles}}{60 \text{ minutes}} = \frac{x \text{ miles}}{45 \text{ minutes}}$$

Finally, cross-multiply:

$$60(x) = 45(4)$$

$$60x = 180$$

$$x = 3$$



3. What is the perimeter of the triangle?

		2	4
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	0	0	0
1	1	1	1
2	2	<input checked="" type="radio"/>	2
3	3	3	3
4	4	4	<input checked="" type="radio"/>
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

The information provided in the figure indicates that the triangle is an isosceles triangle because two side lengths are equal. Thus their corresponding angles are equal. Angle  $x$  must also be  $60^\circ$ . So  $60^\circ + 60^\circ + y^\circ = 180^\circ$ . Angle  $y$  is also  $60^\circ$ . Therefore, the triangle is not only an isosceles triangle, but an equilateral triangle. The side lengths are all equal:

$$8 + 8 + 8 = 24.$$

4. Which of the following numbers is between  $\frac{1}{5}$  and  $\frac{1}{6}$ ?

- (A) 0.15
- (B) 0.18
- (C) 0.21
- (D) 0.22
- (E) 0.24

Convert  $1/5$  and  $1/6$  into their decimal equivalents:

$$1/5 = 0.2$$

$$1/6 = 0.167$$

The only answer choice less than 0.2 and greater than 0.167 is Choice (B).