

# Question ID 3f5398a6

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 3f5398a6

For a person  $m$  miles from a flash of lightning, the length of the time interval from the moment the person sees the lightning to the moment the person hears the thunder is  $k$  seconds. The ratio of  $m$  to  $k$  can be estimated to be 1 to 5. According to this estimate, the person is how many miles from a flash of lightning if the time interval is 25 seconds?

- A. 10
- B. 9
- C. 6
- D. 5

ID: 3f5398a6 Answer

Rationale

Choice D is correct. It’s given that the ratio of m to k is estimated to be 1 to 5. Therefore, when  $k = 25$ , the relationship between these ratios can be expressed by the proportion  $\frac{m}{25} = \frac{1}{5}$ . Multiplying both sides of this equation by 25 yields  $m = 5$ .

Choices A, B, and C are incorrect and may result from calculation errors.

Question Difficulty: Easy

# Question ID 000259aa

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 000259aa

A group of monarch butterflies migrated from Chicago, Illinois, to Michoacán, Mexico, flying a total of 2,100 miles. It took a single butterfly in the group 120 days to travel this route one way. On average, how many miles did the butterfly travel per day?

- A. 0.057
- B. 0.729
- C. 17.5
- D. 24

ID: 000259aa Answer

Rationale

Choice C is correct. If the butterfly traveled 2,100 miles in 120 days, then it traveled, on average,  $\frac{2,100 \text{ miles}}{120 \text{ days}} = 17.5$  miles per day.

Choice A is incorrect. This is approximately the average amount of time, in days, it took the butterfly to fly one mile:  $\frac{120 \text{ days}}{2,100 \text{ miles}} = 0.057$  days per mile. Choice B is incorrect and may result from an arithmetic error. Choice D is incorrect. This is the number of hours in a day rather than the number of miles flown per day.

Question Difficulty: Easy

# Question ID 312ba47c

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 312ba47c

In a box of pens, the ratio of black pens to red pens is **8** to **1**. There are **40** black pens in the box. How many red pens are in the box?

- A. 5
- B. 8
- C. 40
- D. 320

ID: 312ba47c Answer

Correct Answer: A

Rationale

Choice A is correct. It’s given that the ratio of black pens to red pens is 8 to 1. Therefore, there are  $\frac{1}{8}$  as many red pens as black pens in the box. It’s also given that there are 40 black pens in the box. Therefore, the number of red pens is  $\frac{1}{8}$  of the 40 black pens. Thus, the number of red pens is  $40 \times \frac{1}{8}$ , or 5.

Choice B is incorrect. This is the number of black pens in the box for every red pen.

Choice C is incorrect. This is the number of black pens in the box.

Choice D is incorrect. This is the number of red pens in the box if the ratio of black pens to red pens is 1 to 8.

Question Difficulty: Easy

# Question ID 15617f62

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 15617f62

The population density of Worthington is **290** people per square mile. Worthington has a population of **92,800** people. What is the area, in square miles, of Worthington?

- A. **102,400**
- B. **93,090**
- C. **320**
- D. **32**

ID: 15617f62 Answer

Correct Answer: C

Rationale

Choice C is correct. It’s given that the population density of Worthington is 290 people per square mile and Worthington has a population of 92,800 people. Therefore, the area of Worthington is  $92,800 \text{ people} \times \frac{1 \text{ square mile}}{290 \text{ people}}$ , which is equivalent to  $\frac{92,800 \text{ square miles}}{290}$ , or 320 square miles.

Choice A is incorrect and may result from conceptual or calculation errors.

Choice B is incorrect and may result from conceptual or calculation errors.

Choice D is incorrect and may result from conceptual or calculation errors.

Question Difficulty: Easy

# Question ID be35c117

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: be35c117

- A wind turbine completes **900** revolutions in **50** minutes. At this rate, how many revolutions per minute does this turbine complete?
- A. **18**
  - B. **850**
  - C. **950**
  - D. **1,400**

ID: be35c117 Answer

Correct Answer: A

Rationale

- Choice A is correct. Dividing the number of revolutions by the number of minutes gives the number of revolutions the turbine completes per minute. It’s given that the wind turbine completes 900 revolutions in 50 minutes. Therefore, at this rate, this turbine completes  $\frac{900}{50}$ , or 18, revolutions per minute.
- Choice B is incorrect and may result from conceptual or calculation errors.
- Choice C is incorrect and may result from conceptual or calculation errors.
- Choice D is incorrect and may result from conceptual or calculation errors.

Question Difficulty: Easy

# Question ID 3f236a64

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 3f236a64

$x$	$y$
1	4
3	12
5	20
40	$k$

In the table above, the ratio of  $y$  to  $x$  for each ordered pair is constant. What is the value of  $k$  ?

- A. 28
- B. 36
- C. 80
- D. 160

ID: 3f236a64 Answer

Correct Answer: D

Rationale

Choice D is correct. Since the ratio of  $y$  to  $x$  is constant for each ordered pair in the table, the first row can be used to

determine that the ratio of  $y$  to  $x$  is 4 to 1. The proportion  $\frac{4}{1} = \frac{k}{40}$  can be used to solve for  $k$ . Multiplying each side of the equation by 40 yields  $160 = k$ .

Choice A is incorrect. This is the value of  $y$  when the value of  $x$  is 7, not 40. Choice B is incorrect and may result from subtracting 4 from 40 instead of multiplying 40 by 4. Choice C is incorrect and may result from incorrectly setting up the proportion.

Question Difficulty: Easy

# Question ID 6310adbc

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 6310adbc

The ratio of  $t$  to  $u$  is 1 to 2, and  $t = 10$ .

What is the value of  $u$  ?

- A. 2
- B. 5
- C. 10
- D. 20

ID: 6310adbc Answer

Correct Answer: D

Rationale

Choice D is correct. It’s given that the ratio of  $t$  to  $u$  is 1 to 2. Since  $t = 10$ , it follows that the ratio of 10 to  $u$  is also 1 to 2. The relationship between these ratios can be represented by the proportion  $\frac{10}{u} = \frac{1}{2}$ . Multiplying both sides of this equation by 2 and then by  $u$  yields  $20 = u$ .

Choice A is incorrect. This is the value of  $u$  when  $t = 1$ . Choice B is incorrect. This would be the value of  $u$  if the ratio of  $t$  to  $u$  were 2 to 1. Choice C is incorrect. This is the value of  $t$ , not  $u$ .

Question Difficulty: Easy

# Question ID 2d16d62c

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 2d16d62c

A special camera is used for underwater ocean research. When the camera is at a depth of **58** fathoms, what is the camera's depth in feet? (**1 fathom = 6 feet**)

ID: 2d16d62c Answer

Correct Answer: 348

Rationale

The correct answer is 348. It's given that 1 fathom is equivalent to 6 feet. Therefore, 58 fathoms is equivalent to  $58 \text{ fathoms} \frac{6 \text{ feet}}{1 \text{ fathom}}$ , or 348 feet. Thus, when the camera is at a depth of 58 fathoms, the camera's depth, in feet, is 348.

Question Difficulty: Easy



# Question ID aeeaec96

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: aeeaec96

How many yards are equivalent to **612** inches? (**1 yard = 36 inches**)

- A. **0.059**
- B. **17**
- C. **576**
- D. **22,032**

ID: aeeaec96 Answer

Correct Answer: B

Rationale

Choice B is correct. It’s given that 1 yard = 36 inches. Therefore, 612 inches is equivalent to 612 inches  $\frac{1 \text{ yard}}{36 \text{ inches}}$ , which can be rewritten as  $\frac{612 \text{ yards}}{36}$ , or 17 yards.

Choice A is incorrect. This is the number of yards that are equivalent to 2.124 inches.

Choice C is incorrect. This is the number of yards that are equivalent to 20,736 inches.

Choice D is incorrect. This is the number of yards that are equivalent to 793,152 inches.

Question Difficulty: Easy

# Question ID e9841407

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: e9841407

Shaquan has 7 red cards and 28 blue cards. What is the ratio of red cards to blue cards that Shaquan has?

- A. 1 to 4
- B. 4 to 1
- C. 1 to 7
- D. 7 to 1

ID: e9841407 Answer

Correct Answer: A

Rationale

Choice A is correct. It’s given that Shaquan has 7 red cards and 28 blue cards. Therefore, the ratio of red cards to blue cards that Shaquan has is 7 to 28. This ratio can be reduced by dividing both parts of the ratio by 7, which yields the ratio 1 to 4.

Choice B is incorrect. This is the ratio of blue cards to red cards that Shaquan has. Choice C is incorrect and may result from a calculation error when reducing the ratio. Choice D is incorrect. This may result from finding the ratio of blue cards to red cards, or 28 to 7, and then making a calculation error when reducing the ratio.

Question Difficulty: Easy

# Question ID fe1ec415

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: fe1ec415

A cherry pitting machine pits **12** pounds of cherries in **3** minutes. At this rate, how many minutes does it take the machine to pit **96** pounds of cherries?

- A. 8
- B. 15
- C. 24
- D. 36

ID: fe1ec415 Answer

Correct Answer: C

Rationale

Choice C is correct. It's given that the cherry pitting machine pits 12 pounds of cherries in 3 minutes. This rate can be written as  $\frac{12 \text{ pounds of cherries}}{3 \text{ minutes}}$ . If the number of minutes it takes the machine to pit 96 pounds of cherries is represented by  $x$ , the value of  $x$  can be calculated by solving the equation  $\frac{12 \text{ pounds of cherries}}{3 \text{ minutes}} = \frac{96 \text{ pounds of cherries}}{x \text{ minutes}}$ , which can be rewritten as  $\frac{12}{3} = \frac{96}{x}$ , or  $4 = \frac{96}{x}$ . Multiplying each side of this equation by  $x$  yields  $4x = 96$ . Dividing each side of this equation by 4 yields  $x = 24$ . Therefore, it takes the machine 24 minutes to pit 96 pounds of cherries.

Choice A is incorrect. This is the number of minutes it takes the machine to pit 32, not 96, pounds of cherries.

Choice B is incorrect. This is the number of minutes it takes the machine to pit 60, not 96, pounds of cherries.

Choice D is incorrect. This is the number of minutes it takes the machine to pit 144, not 96, pounds of cherries.

Question Difficulty: Easy

# Question ID ba62b0b0

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: ba62b0b0

A kangaroo has a mass of **28** kilograms. What is the kangaroo's mass, in grams? (**1 kilogram = 1,000 grams**)

- A. **28,000**
- B. **1,028**
- C. **972**
- D. **784**

ID: ba62b0b0 Answer

Correct Answer: A

Rationale

Choice A is correct. It's given that a kangaroo has a mass of 28 kilograms and that 1 kilogram is equal to 1,000 grams. Therefore, the kangaroo's mass, in grams, is  $28 \text{ kilograms} \times \frac{1,000 \text{ grams}}{1 \text{ kilogram}}$ , which is equivalent to 28,000 grams.

Choice B is incorrect and may result from conceptual or calculation errors.

Choice C is incorrect and may result from conceptual or calculation errors.

Choice D is incorrect and may result from conceptual or calculation errors.

Question Difficulty: Easy

# Question ID 24ad9dcb

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 24ad9dcb

The weight of an object on Venus is approximately  $\frac{9}{10}$  of its weight on Earth. The weight of an object on Jupiter is approximately  $\frac{23}{10}$  of its weight on Earth. If an object weighs 100 pounds on Earth, approximately how many more pounds does it weigh on Jupiter than it weighs on Venus?

- A. 90
- B. 111
- C. 140
- D. 230

ID: 24ad9dcb Answer

Correct Answer: C

Rationale

Choice C is correct. The weight of an object on Venus is approximately  $\frac{9}{10}$  of its weight on Earth. If an object weighs 100 pounds on Earth, then the object’s weight on Venus is approximately  $\frac{9}{10}(100) = 90$  pounds. The same object’s weight on Jupiter is approximately  $\frac{23}{10}$  of its weight on Earth; therefore, the object weighs approximately  $\frac{23}{10}(100) = 230$  pounds on Jupiter. The difference between the object’s weight on Jupiter and the object’s weight on Venus is approximately  $230 - 90 = 140$  pounds. Therefore, an object that weighs 100 pounds on Earth weighs 140 more pounds on Jupiter than it weighs on Venus.

Choice A is incorrect because it is the weight, in pounds, of the object on Venus. Choice B is incorrect because it is the weight, in pounds, of an object on Earth if it weighs 100 pounds on Venus. Choice D is incorrect because it is the weight, in pounds, of the object on Jupiter.

Question Difficulty: Easy

# Question ID d0d9ede4

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: d0d9ede4

How many feet are equivalent to **34** yards? (**1 yard = 3 feet**)

ID: d0d9ede4 Answer

Correct Answer: 102

Rationale

The correct answer is 102. It’s given that 1 yard is equivalent to 3 feet. Therefore, 34 yards is equivalent to  $34 \text{ yards} \frac{3 \text{ feet}}{1 \text{ yard}}$ , or 102 feet.

Question Difficulty: Easy

# Question ID 06a152cd

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 06a152cd

To make a bakery’s signature chocolate muffins, a baker needs 2.5 ounces of chocolate for each muffin. How many pounds of chocolate are needed to make 48 signature chocolate muffins? (1 pound = 16 ounces)

- A. 7.5
- B. 10
- C. 50.5
- D. 120

ID: 06a152cd Answer

Correct Answer: A

Rationale

Choice A is correct. If 2.5 ounces of chocolate are needed for each muffin, then the number of ounces of chocolate needed to make 48 muffins is  $48 \times 2.5 = 120$  ounces. Since 1 pound = 16 ounces, the number of pounds that is equivalent to 120 ounces is  $\frac{120}{16} = 7.5$  pounds. Therefore, 7.5 pounds of chocolate are needed to make the 48 muffins.

Choice B is incorrect. If 10 pounds of chocolate were needed to make 48 muffins, then the total number of ounces of chocolate needed would be  $10 \times 16 = 160$  ounces. The number of ounces of chocolate per muffin would then be  $\frac{160}{48} = 3.33$  ounces per muffin, not 2.5 ounces per muffin. Choices C and D are also incorrect. Following the same procedures as used to test choice B gives 16.8 ounces per muffin for choice C and 40 ounces per muffin for choice D, not 2.5 ounces per muffin. Therefore, 50.5 and 120 pounds cannot be the number of pounds needed to make 48 signature chocolate muffins.

Question Difficulty: Easy

# Question ID 85b33aa8

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 85b33aa8

A fish swam a distance of **5,104** yards. How far did the fish swim, in miles? (**1 mile = 1,760 yards**)

- A. **0.3**
- B. **2.9**
- C. **3,344**
- D. **6,864**

ID: 85b33aa8 Answer

Correct Answer: B

Rationale

Choice B is correct. It’s given that the fish swam 5,104 yards and that 1 mile is equal to 1,760 yards. Therefore, the fish swam  $5,104 \text{ yards} \times \frac{1 \text{ mile}}{1,760 \text{ yards}}$ , which is equivalent to  $\frac{5,104}{1,760}$  miles, or 2.9 miles.

Choice A is incorrect and may result from conceptual or calculation errors.

Choice C is incorrect and may result from conceptual or calculation errors.

Choice D is incorrect and may result from conceptual or calculation errors.

Question Difficulty: Easy



# Question ID 3ac09984

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 3ac09984

Marta has 7,500 pesos she will convert to US dollars using a currency exchange service. At this time, the currency exchange rate is 1 peso = 0.075 US dollars. The exchange service will charge Marta a 2% fee on the converted US dollar amount. How many US dollars will Marta receive from the currency exchange after the 2% fee is applied?

- A. \$551.25
- B. \$562.50
- C. \$5,625.00
- D. \$98,000.00

ID: 3ac09984 Answer

Correct Answer: A

Rationale

Choice A is correct. At the exchange rate of 1 peso = 0.075 US dollars, 7,500 pesos would be converted to  $7,500 \times 0.075 = \$562.50$ . However, since Maria pays a 2% fee on the converted US dollar amount, she receives only  $(100 - 2)\%$ , or 98%, of the converted US dollars, and  $562.50 \times 0.98 = \$551.25$ .

Choice B is incorrect. This is the number of US dollars Maria would receive if the exchange service did not charge a 2% fee. Choice C is incorrect and may result from a decimal point error made when calculating the conversion to US dollars and from not assessing the 2% fee. Choice D is incorrect and may result from reversing the units of the exchange rate.

Question Difficulty: Easy

# Question ID 551c52b9

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 551c52b9

Tilly earns  $p$  dollars for every  $w$  hours of work. Which expression represents the amount of money, in dollars, Tilly earns for  $39w$  hours of work?

- A.  $39p$
- B.  $\frac{p}{39}$
- C.  $p + 39$
- D.  $p - 39$

ID: 551c52b9 Answer

Correct Answer: A

Rationale

Choice A is correct. It's given that Tilly earns  $p$  dollars for every  $w$  hours of work. This can be represented by the proportion  $\frac{p}{w}$ . The amount of money,  $x$ , Tilly earns for  $39w$  hours of work can be found by setting up the proportion  $\frac{p}{w} = \frac{x}{39w}$ . This can be rewritten as  $39pw = xw$ . Dividing both sides by  $w$  results in  $x = 39p$ .

Choice B is incorrect. This is the amount of money Tilly earns in dollars per hour, not the amount of money Tilly earns for  $39w$  hours of work.

Choice C is incorrect. This is the amount of money Tilly earns for  $w$  hours of work plus 39, not the amount of money Tilly earns for  $39w$  hours of work.

Choice D is incorrect. This is the amount of money Tilly earns for  $w$  hours of work minus 39, not the amount of money Tilly earns for  $39w$  hours of work.

Question Difficulty: Easy

# Question ID 99550621

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 99550621

Makayla is planning an event in a 5,400-square-foot room. If there should be at least 8 square feet per person, what is the maximum number of people that could attend this event?

- A. 588
- B. 675
- C. 15,274
- D. 43,200

ID: 99550621 Answer

Correct Answer: B

Rationale

Choice B is correct. It’s given that the event will be in a 5,400-square-foot room and that there should be at least 8 square feet per person. The maximum number of people that could attend the event can be found by dividing the total square feet in the room by the minimum number of square feet needed per person, which gives  $\frac{5,400}{8} = 675$ .

Choices A and C are incorrect and may result from conceptual or computational errors. Choice D is incorrect and may result from multiplying, rather than dividing, 5,400 by 8.

Question Difficulty: Easy

# Question ID 808f7d6c

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 808f7d6c

If  $t = 4u$ , which of the following is equivalent to  $2t$ ?

- A.  $8u$
- B.  $2u$
- C.  $u$
- D.  $\frac{1}{2}u$

ID: 808f7d6c Answer

Correct Answer: A

Rationale

Choice A is correct. It’s given that  $t = 4u$ . Multiplying both sides of this equation by 2 yields  $2t = 2(4u)$ , or  $2t = 8u$ .

Choice B is incorrect and may result from dividing, instead of multiplying, the right-hand side of the equation by 2. Choices C and D are incorrect and may result from calculation errors.

Question Difficulty: Easy

# Question ID 4347a032

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 4347a032

How many teaspoons are equivalent to **44** tablespoons? (**3 teaspoons = 1 tablespoon**)

- A. **47**
- B. **88**
- C. **132**
- D. **176**

ID: 4347a032 Answer

Correct Answer: C

Rationale

Choice C is correct. It's given that 3 teaspoons is equivalent to 1 tablespoon. Therefore, 44 tablespoons is equivalent to  $44 \text{ tablespoons} \times \frac{3 \text{ teaspoons}}{1 \text{ tablespoon}}$ , or 132 teaspoons.

Choice A is incorrect. This is equivalent to approximately 15.66 tablespoons, not 44 tablespoons.

Choice B is incorrect. This is equivalent to approximately 29.33 tablespoons, not 44 tablespoons.

Choice D is incorrect. This is equivalent to approximately 58.66 tablespoons, not 44 tablespoons.

Question Difficulty: Easy

# Question ID 763e6769

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 763e6769

The ratio  $x$  to  $y$  is equivalent to the ratio  $12$  to  $t$ . When  $x = 156$ , what is the value of  $y$  in terms of  $t$ ?

- A.  $13t$
- B.  $12t$
- C.  $144t$
- D.  $168t$

ID: 763e6769 Answer

Correct Answer: A

Rationale

Choice A is correct. It's given that the ratio  $x$  to  $y$  is equivalent to the ratio  $12$  to  $t$ . This can be represented by  $\frac{x}{y} = \frac{12}{t}$ . Substituting  $156$  for  $x$  in this equation yields  $\frac{156}{y} = \frac{12}{t}$ . This can be rewritten as  $12y = 156t$ . Dividing both sides of this equation by  $12$  yields  $y = 13t$ . Therefore, when  $x = 156$ , the value of  $y$  in terms of  $t$  is  $13t$ .

Choice B is incorrect and may result from conceptual or calculation errors.

Choice C is incorrect and may result from conceptual or calculation errors.

Choice D is incorrect and may result from conceptual or calculation errors.

Question Difficulty: Easy