



MATHS

BOOKS - PRINCETON MATHS (ENGLISH)

STRATEGIES



1. Jill spend x dollars on pet toys and 12 dollars on socks.If the amout jill spend was twice the

amount she earns each weak, how much does

jill earn each week in term of x?

A.
$$2(x+12)$$

B. 2x + 24

C.
$$rac{x}{2}+12$$

D. $rac{x+12}{2}$

Answer: D



2. Kamberly and elizabeth are having lunch at a diner.The price of kimberly 's meal is z dollars, and the price of Elizabeth's meal is \$4 more than the price of Kimberly's meal. They decide to evenly share the cost of lunch, and a 10% tax is applied to the meal. Which of the following expressions represents the amount, in dollars, that each of them owes without tip?

A. 0.1z + 4.0

B. 1.1z + 2.2

C.2.2z + 4.4

D. 4, 2z + 0.1

Answer: B

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3. At this bake sale, Mr. Heftwhistle sold 30% of his pies to one friend. Mr.. Heftwhistle then sold 60% of the remaining pies to another friend. What percent of his original number of pies did Mr. Hefrwhistle have left?

A. 10~%

 $\mathbf{B.\,}18~\%$

 $\mathsf{C.}\,28~\%$

D. 36~%

Answer: C

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4. If
$$\displaystyle \frac{3(x-1)}{2} = \displaystyle \frac{9}{x-2}$$
, what is the value of x?

 $\mathsf{B.}-2$

C. 1

 $\mathsf{D.4}$

Answer: D

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5. A store sells shirts fro \$7.50 each and hats for \$5.00 each. The store earns \$1,822.50 in one day from selling a total of 307 shirts and hats. How many shirts were sold on that day? A. 37

B. 89

C. 115

 $\mathsf{D}.\,202$

Answer: C

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6. Chris can run 3.6 miles in 44 minutes. If the continues to run at this pace, which of the

following is closest to the distance he will

travel in 3 hours?

A. 5 miles

B. 10 miles

C. 15 miles

D. 20 miles

Answer: C

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Johan recieves an order for a carpet in the shape of a regular octagon with 8 inche sides. The octangonal carpet will be cut out from a square piece of carpet , as shown in the figure above. What is the area of the one of the 4 congruent triangles that will be cut out from

the square?

A. 16

B. $16\sqrt{2}$

C. $16\sqrt{3}$

D. 64

Answer: A





1. If $\frac{c-d}{c} = \frac{5}{8}$, which of the following must also be true?

A.
$$\frac{c-d}{d} = \frac{8}{5}$$

B.
$$\frac{d}{c} = \frac{13}{8}$$

C.
$$\frac{c+d}{c} = \frac{13}{8}$$

D.
$$\frac{c}{d} = \frac{8}{3}$$

Answer: D

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2. If $\frac{y}{3} = 6x$, then in terms of y, which of the following is equivalent to x?

A. 2*y*

B. *y*

C.
$$\frac{y}{2}$$

D.
$$\frac{y}{18}$$

Answer: D

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3. If $p=4\sqrt{3q}$, what is 3q, in terms of p?

A.
$$\frac{p^2}{16}$$

B. $\frac{p^2}{4}$
C. $16p^2$
D. $\frac{p}{4}$

Answer: A



4. 2x + p = 7x - 3, 2y + q = 7y - 3In the above equations, p and q are constant. If q is 5 less than p, which of the following statements is true?

A. x is 1 less than y

B. x and y equal

C. x is 1 more than y.

D. x is 2 more than y.

Answer: C



Quick Quiz 2

1.
$$V(y) = 15,000 igg(rac{1}{2}igg)^{rac{y}{3}}$$

Leah buys a car,which loses value exponentially over time.The function v above models the value of car y years after Leah buys it. Based on the function above,which of the following is true?

A. the	predicted	valu	of	leah's	car
depreciates by a third every year.					
B. the	predicated	value	of	leah's	car
depreciates by a half every year					
C. the	predicted	valu	of	leah's	car
depreciates by a third every 2year.					
D. the	predicated	value	of	leah's	car
depreciates by a half every 3 year					

Answer: D

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2. Which one of the following must be greater than x, if x is real number?

A.
$$\frac{x}{4}$$

B.4x

$$C. x^2 + 1$$

D.
$$x^3 + 1$$

Answer: C

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3. For all values of a, b, c, and d which of the

following is equivalent to $\frac{\frac{ad}{bc}}{\frac{ac}{bd}}$?

A.
$$a^2c^2$$

B. $\frac{a^2}{h^2}$
C. $\frac{d^2}{c^2}$

D.
$$b^2 d^2$$

Answer: C



1. If 4 less than the product of b and 6 is 44, what is the value of b?

 $\textbf{A.}\,4$

B. 6

C. 8

D. 14

Answer: C

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2. A store reduces the price of a CD player by 20% and then reduces that price by 15%. If the final price of the CD player is \$170, what was its original price?

- A. 140
- B. 185
- C. 200
- D. 250

Answer: D



3. An annual interest rate of 5 percent is paid to a CD (certificate of deposit) account. If the account now had a balance of \$420.00, what was the balance of the account before the annual interest was paid?

A. 375

B. 393.85

C. 400

D. 419.85

Answer: C

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4. Which of the following is a solution to the equation $y=\sqrt{15-y}+3?$

1.-1

II. 6

III. 11

A. II only

B. III only

C. I and II only

D. II and III only

Answer: C

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5. The expressions $4x^2 - 12$ is equivalent too 4(x+c)(x-c). If c is a positive constant, what is the value of c?

A. $\sqrt{3}$

 $\mathsf{B.}\,3$

$\mathsf{C.}\,\sqrt{12}$

D. 12

Answer: A





D. 12.3





B. 150

C. 360

D. 450

Answer: D

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Quick Quiz 5

1. Which of the following values of b satisfies the equation 4, $500 = \frac{900}{b}$?

 $\mathsf{A.}\,0.2$

 $\mathsf{B.5}$

C. 90

 $\mathsf{D.}\,405$

Answer: A

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Quick Quiz 6

1. Dan, Laura, and Jane went grocery shopping. Dan spent three times as much as Laura and half as much as Jane. If they spent a total of \$50 on grocies, how much did Jane spend?

A. 15

B. 25

C. 30

D. 45

Answer: C





Quick Quiz 7

1. Three numbers,a, b, and c, have sum of 672. The value of a is 25% less than the sum of b and c. What is the value of a?

A. 97

B. 135

C.288



