

[ Print this page ]

Course: VLA Math Algebra I\_1  
Unit: Theoretical Probability

**Answer the following questions below:**

1) What ratio (in words) is used to find probability?

The probability of an event occurring is referred to  $P = (\text{favorable outcomes} / \text{possible c})$

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2) In Example #1 that is shown in the unit link to "Theoretical Probability", what is the probability that only two heads will be tossed?

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**Not Graded**

3) In Example #2 that is shown in the lesson link to "Theoretical Probability", what is the probability that the sum of the spins will be less than or equal to 6?

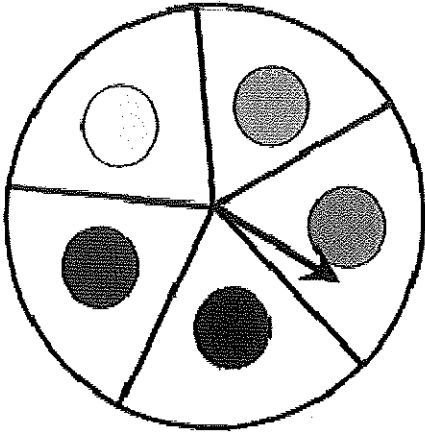
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4) List the sample space for spinning the spinner twice.



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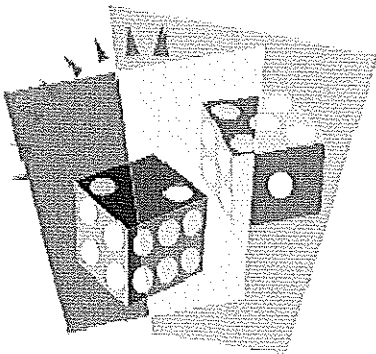
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5) List the sample space for rolling a die twice.



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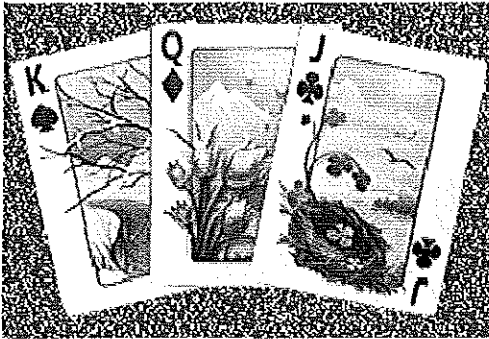
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For the next two problems, find the number of favorable outcomes in the sample space for each experiment listed.

6) What is the number of favorable outcomes when choosing a face card from a standard deck of cards? (Face cards are kings, queens, and jacks.)



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7) Refer to the sample space listed in problem #4 above to answer the following question: What is the number of favorable outcomes if the spinner is spun twice and lands on the same color both times?

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Not Graded

For the next two problems, find the probability.

8) Refer back to problem #6 to answer the following question: What is the probability of drawing a face card from a standard deck of cards?

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**Not Graded**

9) Refer back to problem #7 to answer the following question: What is the probability of landing on the same color both times when the spinner is spun twice?

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For the next two problems, determine the ratio that represents the greater probability. (Hint: Express each probability as a decimal or a percent, and then compare.)

10) Which ratio represents the greater probability? 7 out of 36 OR 9 out of 52

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11) Which ratio represents the greater probability? 4 out of 10 OR 37 out of 64

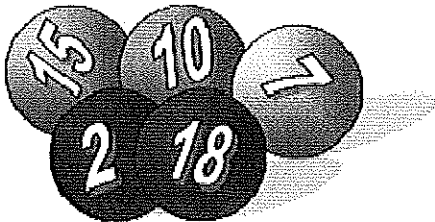
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For the next four problems, refer to the following scenario to find each probability: One ball is drawn at random from a barrel that contains balls numbered from 1 to 18.



12) What is the probability that the number of the ball drawn is an odd number?

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**Not Graded**

13) What is the probability that the number of the ball drawn is a factor of 6?

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**Not Graded**

14) What is the probability that the number of the ball drawn is less than 12?

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15) What is the probability that the number of the ball drawn is a multiple of 4?

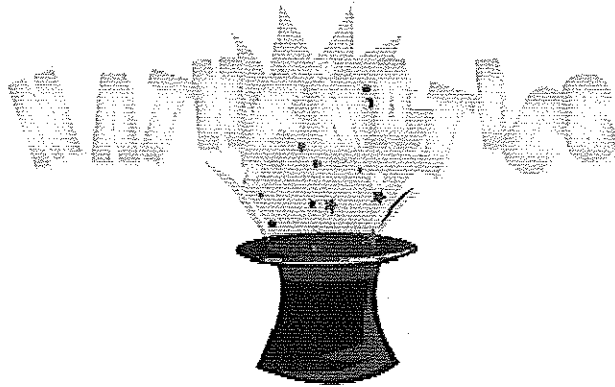
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**Not Graded**

**For the next four problems, refer to the following scenario: The letters in the word MATHEMATICS are written on index cards and placed in a hat. A letter is selected at random.**



16) What is the probability that the letter will be a vowel?

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**Not Graded**

17) What is the probability that the letter will be an M?

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**Not Graded**

18) What is the probability that the letter will be a consonant?

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**Not Graded**

19) What is the probability that the letter will NOT be a T?

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Not Graded

For the next four problems, refer to the following scenario: At West High School, each student was asked if he or she participated in the mathematics club. The table below shows the results of the survey.

	Participate	Do Not Participate
Girls	326	247
Boys	128	432

20) How many students were boys?

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Not Graded

21) How many students did NOT participate?

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Not Graded

22) How many students were boys AND participated?

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23) How many students were boys OR participated?

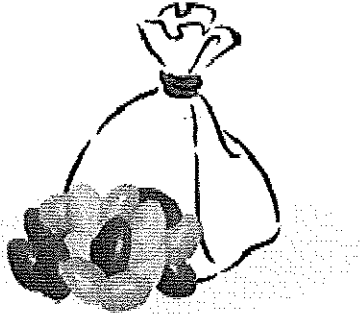
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For the next three problems, refer to the following scenario to find each probability: Jill has 6 red, 4 yellow, and 5 green jelly beans in a bag.



24) What is the probability of choosing a red jelly bean?

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25) What is the probability of choosing a yellow jelly bean or a green jelly bean?

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26) What is the probability of choosing a yellow jelly bean?

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**Not Graded**

27) In general, describe the intersection of two sets and state the logical operator (as a word) that is used to represent intersection.

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**Not Graded**

28) In general, describe the union of two sets and state the logical operator (as a word) that is used to represent union.

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29) If A and B are intersecting sets, explain how to determine the probability of event A OR event B happening.

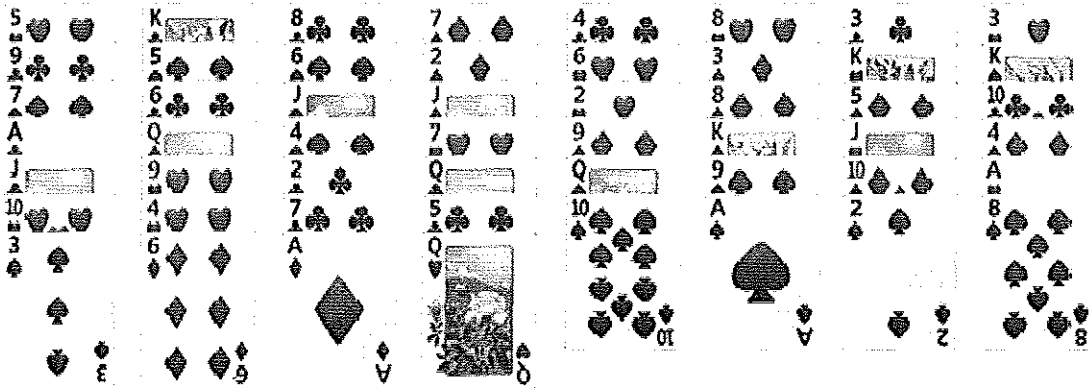
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**Not Graded**

**For the next three problems, refer to a deck of 52 playing cards to find each probability.**



30) What is the probability of drawing a ten OR a heart from the deck of cards?

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Not Graded

31) What is the probability of drawing a diamond OR an odd numbered card (aces and face cards are not odd)?

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Not Graded

32) What is the probability of drawing a face card OR a red card?

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Not Graded

Review

33) Solve for "x" by factoring.

$$x^2 + x - 12 = 0$$

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**Not Graded**

34) Solve for "x" by factoring.

$$x^2 - 2x - 35 = 0$$

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**Not Graded**

35) Simplify:  $4(x + 2y) - 5(x - 3y)$

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**Not Graded**

36) Solve for "x".

$$\frac{x}{3} = -3x + 5$$

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**Not Graded**

37) What is the value of the discriminant of the quadratic equation shown below?

$$3x^2 - 6x + 3 = 0$$

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**Not Graded**

38) Point X(4, 9) and Y(10, 5) are plotted on a coordinate plane. Find the coordinates of the midpoint (M) of segment XY.

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**Not Graded**

39) Explain how to find the sine of an angle in a right triangle.

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**Not Graded**

40) Explain how to find the tangent of an angle in a right triangle.

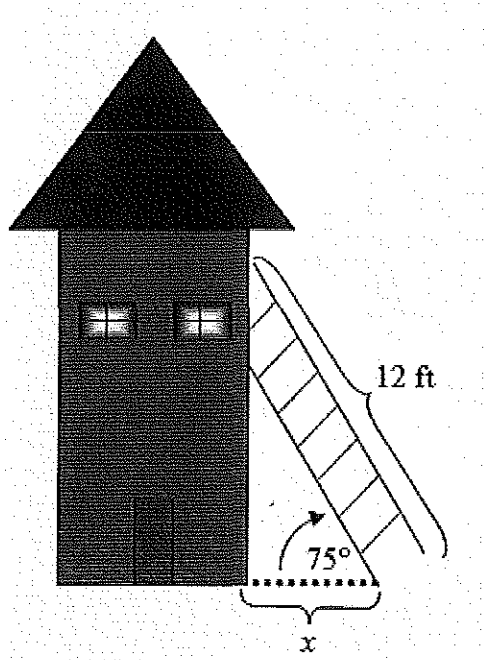
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**Not Graded**

41) A 12-foot ladder is leaning against a building. The ladder makes a 75-degree angle with the ground. How far is the base of the ladder from the base of the building? Round the answer to the nearest tenth.




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Not Graded

[ All Finished! Review My Answers ]

## Theoretical Probability

Let's examine the toss of a coin. Let's say you are trying to determine who takes out the garbage, you or your brother. You decide to flip a coin to determine the winner. For this experiment there are two possible outcomes – heads or tails. These are said to be **equally likely outcomes** because it is just as likely for heads to come up as it is for tails.

A tossed coin will tend to come up heads half of the time and tails half of the time. We then say that the probability of getting heads is  $\frac{1}{2}$  and the probability of getting tails is  $\frac{1}{2}$ .

The following notation is used for probability:

$$\text{Probability of heads} \rightarrow P(\text{heads}) = \frac{1}{2}$$

$$\text{Probability of tails} \rightarrow P(\text{tails}) = \frac{1}{2}$$

If you add the probabilities together, they result is 1.

The probability of an event occurring is referred to  $P = \left( \frac{\text{favorable outcomes}}{\text{possible outcomes}} \right)$ . The favorable doesn't necessarily mean good or bad. It refers to the outcome you are looking for.

In the coin toss experiment, you will notice that the probability of tossing heads is  $\frac{1}{2}$  because the coin has 1 side heads, but the possible outcome is heads or tails, 2 possibilities.

The same concept can be explained using a single roll of a die. This time there are 6 possible outcomes – 1, 2, 3, 4, 5, or 6. Each of these possibilities has an equally likely outcome.

$$P(1) = \frac{1}{6}$$

$$P(2) = \frac{1}{6}$$

$$P(3) = \frac{1}{6}$$

$$P(4) = \frac{1}{6}$$

$$P(5) = \frac{1}{6}$$

$$P(6) = \frac{1}{6}$$

Again if you add these probabilities you will get 1.

**Sample space** is the set of all possible outcomes of a probability experiment.

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Course: VLA Math Algebra I\_1  
Unit: Radical Equations

**Answer the following questions below:**

**For the first eight problems, solve each equation. Make sure to check your answers.**

1) Solve for "x".

$$\sqrt{3x} - 2 = 4$$

x=12

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**Not Graded**

2) Solve for "x".

$$\sqrt{3x} = 7$$

x=49/3

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Attachment(s): None

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**Not Graded**

3) Solve for "x".

$$\sqrt{2x + 9} + 10 = 15$$

x=8

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**Not Graded**

4) Solve for "x".

$$\sqrt{4x} - 4 - 4 = 0$$

x=5

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Attachment(s): None

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Not Graded

5) Solve for "y".

$$3\sqrt{4y+2} = 12$$

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Attachment(s): None

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Not Graded

6) Solve for "x".

$$\sqrt{2x^2-9} = x$$

247 character(s) left

Attachment(s): None

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Not Graded

7) Solve for "x".

$$\sqrt{x^2+3x-6} = x$$

247 character(s) left

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Not Graded

8) Solve for "x".

$$\sqrt{x+5} = x-1$$

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Not Graded



9) Explain the solution to the previous problem.

The answer is  $x=4$  rather than the answer being  $x=4, -1$  Because the negative one was excluded when we took the absolute value of the right hand side of the equation after removing the radical from the left hand side of the equation.

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Not Graded

10) Solve and write the solution in simplest form. State the letter of the correct answer.

$$x^2 = 80$$

A.  $\pm 2\sqrt{20}$  B.  $\pm 16\sqrt{5}$  C.  $\pm 4\sqrt{5}$  D.  $\pm \sqrt{80}$

C.

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Not Graded

11) Explain the solution to the previous problem.

This answer is plus or minus because when you square a negative number it becomes the same number as it's positive counterpart.

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Not Graded

12) Solve and write the solution in simplest form. State the letter of the correct answer.

$$2x^2 = 24$$

A.  $\pm 3\sqrt{2}$  B.  $\pm 4\sqrt{3}$  C.  $\pm \sqrt{22}$  D.  $\pm 2\sqrt{3}$

D.

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Not Graded

13) Solve and write the solution in simplest form. State the letter of the correct answer.

$$x^2 = 250$$

A.  $\pm 5\sqrt{10}$     B.  $\pm 10\sqrt{5}$     C.  $\pm 5\sqrt{5}$     D.  $\pm 25\sqrt{10}$

A.

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Not Graded

14) Solve for "x".

$$5x^2 - 45 = 0$$

x=Plus or minus 3.

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Not Graded

15) Solve for "x".

$$(x + 4)^2 = 4$$

x= -2, -6

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Not Graded

16) Solve for "x".

$$(x + 2)^2 = 16$$

x= 2, -6

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**Not Graded**

17) State the Pythagorean Theorem.

$a^2+b^2=c^2$   
 a and b are the lengths of the legs and c is the length of the hypotenuse (the side opposite the

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**Not Graded**

18) Explain how the Pythagorean Theorem can be used if the measure of one leg and the hypotenuse is known.

If one leg and the hypotenuse is now, square the leg and the hypotenuse, then subtract the squared leg from the squared hypotenuse. Take the square root of the resultant number and you have found the other side.

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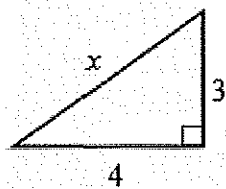
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For the next four problems, find the missing measure for each figure.

19) Find the missing measure.



x=5

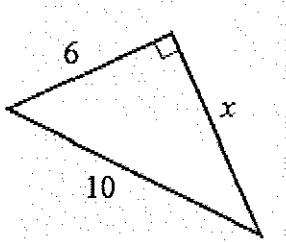
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20) Find the missing measure.



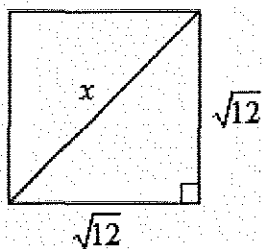
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Not Graded

21) Find the missing measure. State the letter of the correct answer.



- A.  $4\sqrt{6}$
- B.  $2\sqrt{12}$
- C. 12
- D.  $2\sqrt{6}$

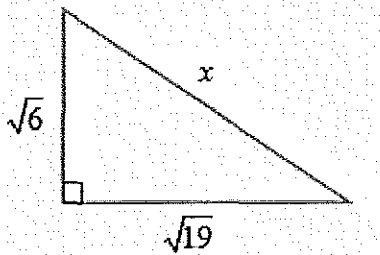
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22) Find the missing measure.



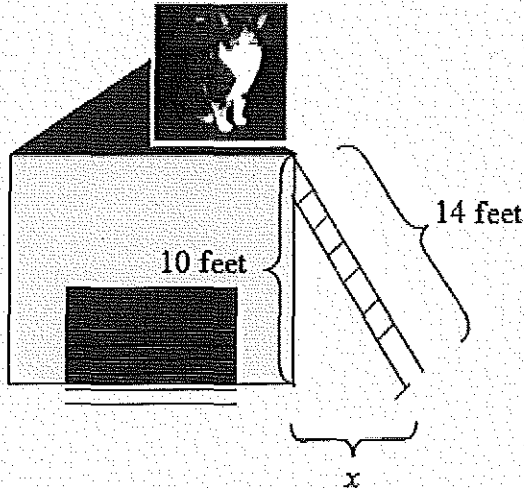
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Applications

23) If you lean a fourteen-foot ladder against the garage to rescue your kitten that is on a roof that is 10 feet high, how far from the garage should you place the ladder? Express the answer in simplest form. State the letter of the correct answer.



- A.  $\sqrt{296}$  feet
- B. 96 feet
- C.  $4\sqrt{6}$  feet
- D.  $2\sqrt{74}$  feet

C.

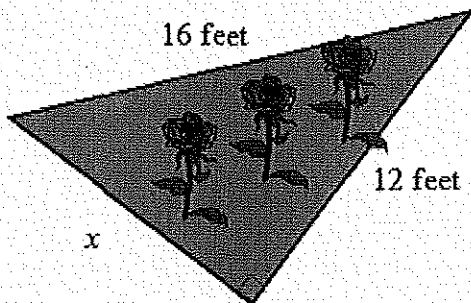
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24) A garden shaped like a right triangle is shown below. Find the length of the missing side and express the length in simplest form. State the letter of the correct answer.



- A.  $4\sqrt{7}$
- B.  $16\sqrt{7}$
- C.  $4\sqrt{28}$
- D. 28

A.

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Not Graded

Review

For the next two questions, determine if the graphs of the pairs of equations are parallel or perpendicular.

25) Parallel or Perpendicular?

$$y = 3x - 2$$

$$y = \frac{-1}{3}x + 5$$

Perpendicular

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Not Graded

26) Parallel or Perpendicular?

$$-2x + y = 8$$

$$-6x + 3y = 15$$

Parallel

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Not Graded

For the next two problems, solve each equation.

27) Solve:  $-3x + 5(6 - 2x) = 4(4 - 2x)$

$x = 14/5$

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Not Graded

28) Solve:  $8y - 5(y + 3) = (7y - 1)3$

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Not Graded

For the next two problems, simplify. Circle the letter of the correct answer.

29) Simplify.

$$(-18mn^4)\left(\frac{-1}{6}mn^2\right)$$

- A.  $-3mn^8$     B.  $3m^2n^6$     C.  $\frac{1}{3}m^2n^6$     D.  $\frac{-1}{3}mn^8$

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Not Graded

30) Simplify.

$$\frac{-21x^5w^2}{7x^4w^5}$$

- A.  $\frac{-3x}{w^3}$     B.  $\frac{-3x^9}{w^7}$     C.  $\frac{x}{-3w^3}$     D.  $\frac{3x}{w^3}$

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Not Graded

For the next two problems, find each sum or difference.

31) Find the difference:  $(5a + 9b) - (2a + 4b)$

$3a+5b$

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Not Graded

32) Find the sum:  $4(2x + 3y) + (4x + 9y)$

$12x+21y$

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Not Graded

For the next three problems, factor each polynomial completely.

33) Factor the polynomial.

$$18x^2 + 9xz + z^2$$

$(6x+z)(3x+z)$

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Not Graded

34) Factor the polynomial.

$$x^2 - 16x + 48$$

$(x-4)(x-12)$

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Not Graded

35) Factor the polynomial.

$$6x^2 - 10x - 4$$

$(3x+1)(2x-4)$



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Not Graded

For the next three problems, solve each equation by factoring.

36) Solve for "y".

$$14y = y^3 - 5y^2$$

y=7, -2, 0

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Not Graded

37) Solve for "w".

$$w^2 - w - 20 = 10$$

w=3, 4

244 character(s) left

Attachment(s): None

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Not Graded

38) Solve for "x".

$$x^2 + 15x = -44$$

x=11, -4

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Not Graded

For the next two problems simplify the rational expressions.

39) Simplify.

$$\frac{7x^2}{5x^3 - 2x^2}$$

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**Not Graded**

40) Simplify.

$$\frac{n^2 - 4n - 12}{n - 6}$$

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**Not Graded**

**For the next two problems, find each product. Assume that no denominator is equal to zero.**

41) Find the product.

$$\frac{xy}{3x - 3y} \cdot \frac{x^2 - xy}{xy}$$

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**Not Graded**

42) Find the product.

$$\frac{2n^2 - 5n - 3}{n + m} \cdot \frac{n^2 - m^2}{2n + 1}$$

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Not Graded

[ All Finished! Review My Answers ]

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Course: VLA Math Algebra I\_1  
Unit: Rational Expressions

**Answer the following questions below:**

For the first ten problems, find each product. Assume that no denominator is equal to zero. Please note the following instructions for answers which involve fractions.

*Example 1:* Two-thirds is written as  $2/3$ .

*Example 2:* Five and three fourths is written as  $5\ 3/4$ .

*Example 3:*  $\frac{x+3}{5}$  is written as  $(x+3)/5$ .

*Example 4:*  $\frac{x-2}{x+1}$  is written as  $(x-2)/(x+1)$ .

1) Find the product.

$$\frac{2n}{3} \cdot \frac{1}{4n}$$

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2) Find the product.

$$\frac{x}{3} \cdot \frac{6}{2x^2}$$

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3) Find the product.

$$\frac{6}{5} \cdot \frac{10}{2x-4}$$

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4) Find the product.

$$\frac{n^2 - 4}{3} \cdot \frac{n}{n^2 - 2n}$$

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5) Find the product.

$$\frac{3y - 3}{6} \cdot \frac{4}{y - 1}$$

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6) Find the product.

$$\frac{x^2 - x - 6}{14} \cdot \frac{7}{x - 3}$$

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7) Find the product.

$$\frac{2b - 4}{3b + 6} \cdot \frac{2b + 4}{b - 2}$$

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8) Find the product.

$$\frac{3m - 9}{m - 3} \cdot \frac{m + 2}{3m + 12}$$

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9) Find the product.

$$\frac{x^2 - 1}{x^2 + 4x + 3} \cdot \frac{x^2 + x - 6}{x^2 + x - 2}$$

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10) Find the product.

$$\frac{z^2 - 3z - 10}{2} \cdot \frac{4}{z^2 + z - 2}$$

250 character(s) left

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**For the next ten problems, find each quotient. Assume no denominator is equal to zero.**

11) Find the quotient.

$$\frac{1}{n+2} \div \frac{1}{n+1}$$

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12) Find the quotient.

$$\frac{m}{2} \div \frac{1}{4}$$

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13) Find the quotient.

$$\frac{2a^2}{9} \div \frac{4a}{3}$$

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14) Find the quotient.

$$\frac{b}{a^2b} \div \frac{a}{a^3b^2}$$

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Attachment(s): None

[ Save ]

15) Find the quotient.

$$\frac{6}{x^2-9} \div \frac{3}{x-3}$$

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[ Save ]

16) Find the quotient.

$$\frac{(k-5)^2}{k+3} \div \frac{k^2-k-20}{k^2+7k+12}$$

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[ Save ]

17) Find the quotient.

$$\frac{a-b}{4} \div \frac{a-b}{12}$$

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18) Find the quotient.

$$\frac{m^2-16}{2m} \div (m-4)$$

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19) Find the quotient.

$$\frac{b^2+5b+6}{b^2-4} \div \frac{b^2+2b-3}{b^2-3b+2}$$

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20) Find the quotient.

$$\frac{p^2-7p+12}{p^2+p-20} \div \frac{p^2-9p+18}{p^2+7p+10}$$

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**For the next five problems, find the Least Common Denominator (LCD) for each set of rational expressions.**



21) Find the LCD.

$$\frac{4}{3y}, \frac{7}{2y}$$

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22) Find the LCD.

$$\frac{x+1}{8x}, \frac{3x-1}{12xy}, \frac{1}{6x}$$

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23) Find the LCD.

$$\frac{6}{x^2-4x-5}, \frac{1}{x+1}$$

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[ Save ]

24) Find the LCD.

$$\frac{a}{a-5}, \frac{a-1}{a+5}$$

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[ Save ]

25) Find the LCD.

$$\frac{2}{x^2-9}, \frac{1}{2x+6}$$

250 character(s) left

Attachment(s): None

[ Save ]

For the next ten problems, find each sum and or difference.

26) Find the sum.

$$\frac{x+1}{8} + \frac{3}{4}$$

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Attachment(s): None

[ Save ]

27) Compute.

$$\frac{3m}{m} + \frac{m}{m^2} - \frac{2m}{3m}$$

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Attachment(s): None

[ Save ]

28) Find the difference.

$$\frac{1}{2m} - \frac{1}{3mn}$$

250 character(s) left

Attachment(s): None

[ Save ]

29) Find the sum.

$$\frac{2}{x} + \frac{3}{x+5}$$

250 character(s) left

Attachment(s): None

[ Save ]

30) Find the difference.

$$\frac{3}{y+6} - \frac{11}{y^2-36}$$

250 character(s) left

Attachment(s): None

[ Save ]

31) Find the difference.

$$\frac{5}{p} - \frac{3}{p-2}$$

250 character(s) left

Attachment(s): None

[ Save ]

32) Find the sum.

$$\frac{6}{n+4} + \frac{3}{n-1}$$

250 character(s) left

Attachment(s): None

[ Save ]

33) Find the sum.

$$\frac{2}{d-4} + \frac{3}{d+2}$$

250 character(s) left

Attachment(s): None

[ Save ]

34) Find the difference

$$\frac{10}{a-b} - \frac{6b}{a^2-b^2}$$

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Attachment(s): None

[ Save ]

35) Find the difference.

$$\frac{4}{r+1} - \frac{3}{r-1}$$

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Attachment(s): None

[ Save ]

**For the next ten problems, solve each equation.**

36) Solve for "n".

$$\frac{n}{2} + \frac{2n}{3} = 7$$

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Attachment(s): None

[ Save ]

37) Solve for "x".

$$\frac{2}{x} - \frac{4}{3x} = \frac{2}{9}$$

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Attachment(s): None

[ Save ]

38) Solve for "a".

$$\frac{a+2}{3} + \frac{a-1}{6} = 5$$

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Attachment(s): None

[ Save ]

39) Solve for "x".

$$\frac{x-1}{4} - \frac{2x-3}{4} = 5$$

250 character(s) left

Attachment(s): None

[ Save ]

40) Solve for "x".

$$2 - \frac{7x-1}{6} = 3x - \frac{19x+3}{4}$$

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Attachment(s): None

[ Save ]

41) Solve for "n".

$$\frac{5n}{3n+1} - \frac{1}{9n+3} = \frac{7}{6}$$

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[ Save ]

42) Solve for "u".

$$\frac{u}{u+2} + \frac{2u}{u-2} = \frac{u^2}{u^2-4}$$

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[ Save ]

43) Solve for "n".

$$\frac{1}{n-2} + 3 = \frac{-16}{n^2 + n - 6}$$

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[ Save ]

44) Solve for "m".

$$\frac{4}{m-2} + \frac{5}{m+1} = \frac{1}{m+1}$$

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45) Solve for "a".

$$\frac{20-a}{a} = a$$

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Attachment(s): None

[ Save ]

[ All Finished! Review My Answers ]