

I'm not a robot!

Answer Key**Section 6.6****Study Guide**

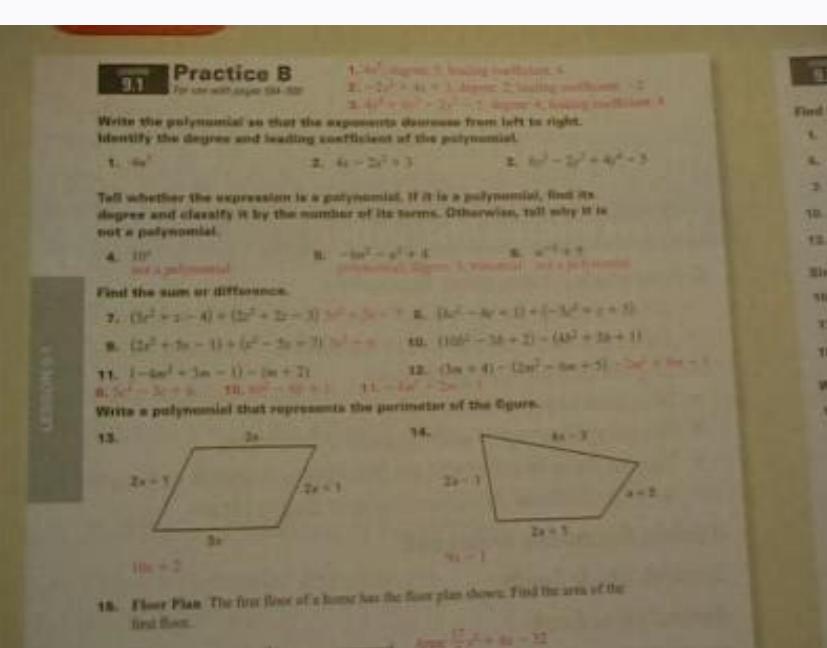
1. independent assortment of chromosomes during meiosis and random fertilization of gametes
2. new combinations of alleles
3. Unique genetic combinations result in organisms with unique phenotypes, which increases the likelihood that some will survive under changing conditions.
4. duplicated

7. No. The genes are likely to be linked and to travel together during meiosis.
8. crossing over
9. genetic linkage

Crossing Over sketch:
Refer to Figure 6.20 for visual answers.

Box 1: Each cell should contain one large duplicated chromosome and one small duplicated chromosome. One sister chromatid on each chromosome should appear to have undergone crossing over. **Box 2:** Each cell should contain one large chromosome and one small chromosome. The exact combination of chromosomes will depend on how the students divided the chromosomes.

5. Yes. The chromosomes carrying those genes will line up randomly and separate randomly during meiosis.
6. Yes. The genes will be far enough from each other that crossing over is very likely to occur between them.



NAME _____ DATE _____ PERIOD _____

8-1 Practice**Monomials and Factoring**

Find the factors of each number. Then classify each number as prime or composite.

- | | | |
|------------------------------|---|---|
| 1. 18 1, 2, 3, 6, 9, 18; | 2. 37 1, 37; prime | 3. 45 1, 2, 3, 4, 6, 9, 12, 15, 24, 45; composite |
| 4. 116 1, 2, 4, 29, 58, 116; | 5. 138 1, 2, 3, 6, 23, 46, 69, 138; composite | 6. 211 1, 211; prime |

Find the prime factorization of each integer.

- | | | |
|-------------------------|-------------------------------|---------------------------------|
| 7. 52 $2^2 \cdot 13$ | 8. -96 $-1 \cdot 2^5 \cdot 3$ | 9. 308 $2^2 \cdot 3^3$ |
| 10. 225 $3^2 \cdot 5^2$ | 11. 286 $2 \cdot 11 \cdot 13$ | 12. -384 $-1 \cdot 2^7 \cdot 3$ |

Factor each monomial completely.

- | | |
|--|--|
| 13. $30m^5$ $2 \cdot 3 \cdot 5 \cdot d \cdot d \cdot d \cdot d \cdot d$ | 14. $-72mn$ $-1 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot m \cdot n$ |
| 15. $81abc^3$ $3 \cdot 3 \cdot 3 \cdot 3 \cdot b \cdot b \cdot c \cdot c \cdot c$ | 16. $145abc^3$ $5 \cdot 29 \cdot a \cdot b \cdot c \cdot c \cdot c$ |
| 17. $168pq^2r$ $2 \cdot 2 \cdot 2 \cdot 3 \cdot 7 \cdot p \cdot q \cdot q \cdot r$ | 18. $-121x^2yz^2$ $-1 \cdot 11 \cdot 11 \cdot x \cdot x \cdot y \cdot z \cdot z$ |

Find the GCF of each set of monomials.

- | | | |
|---------------------------------|--|---------------------------------------|
| 19. 18, 49 1 | 20. 18, 45, 63 9 | 21. 16, 24, 48 8 |
| 22. 12, 30, 114 6 | 23. 9, 27, 77 1 | 24. 24, 72, 108 12 |
| 25. $24a^2b^2, 66a^2b^2, 8ab^2$ | 26. $72x^2y^2, 36xy^2, 36x^2y^2$ | 27. $15a^2b, 35ab^2, 5ab$ |
| 28. $28m^2n^2, 45pq^2, 1$ | 29. $40xy^2, 56x^2y^2, 124x^2y^2, 4xy^2$ | 30. $8ac^2d, 40c^2d^2, 32a^2d, 8c^2d$ |

GEOMETRY For Exercises 31 and 32, use the following information.

The area of a rectangle is 84 square inches. Its length and width are both whole numbers.

31. What is the minimum perimeter of the rectangle? **38 in.**

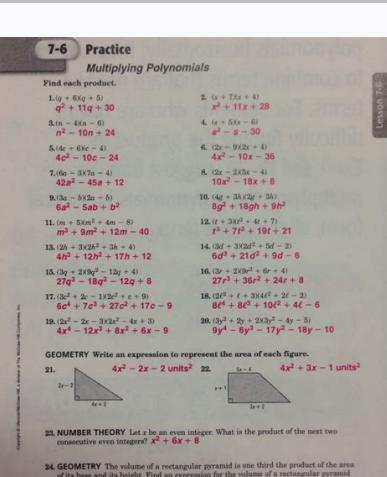
32. What is the maximum perimeter of the rectangle? **170 in.**

RENOVATION For Exercises 33 and 34, use the following information.

Mrs. Baxter wants to tile a wall to serve as a splashguard above a basin in the basement. She plans to use equal-sized tiles to cover an area that measures 48 inches by 36 inches.

33. What is the maximum-size square tile Mrs. Baxter can use and not have to cut any of the tiles? **12-in. square**

34. How many tiles of this size will she need? **12**



Assessment**Chapter Test****Renewable Energy****MATCHING**

In the space provided, write the letter of the term or phrase that best matches the description.

- | | |
|---|------------------------------------|
| <input type="checkbox"/> 1. uses the sun's energy to heat a building directly | a. passive solar heating |
| <input type="checkbox"/> 2. uses low pressure and warm water to boil cold water | b. active solar heating |
| <input type="checkbox"/> 3. uses the sun's energy and a semiconductor to produce a very small amount of electricity | c. photovoltaic cell |
| <input type="checkbox"/> 4. uses the sun's energy to heat a liquid, which then heats a building | d. fuel cell |
| <input type="checkbox"/> 5. combines hydrogen and oxygen to produce electricity | e. ocean thermal energy conversion |

MULTIPLE CHOICE

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- | | |
|---|--|
| <input type="checkbox"/> 6. Wind, moving water, sunlight, and heat from Earth's interior are sources of | a. alternative energy. c. renewable energy. |
| <input type="checkbox"/> b. geothermal energy. | d. ocean thermal energy. |
| <input type="checkbox"/> 7. One disadvantage of wind energy is that | a. wind turbines are not cost-effective. |
| <input type="checkbox"/> b. large amounts of farmland are needed for the turbines. | c. it must be transported from its source to where it is needed. |
| <input type="checkbox"/> c. wind turbines generate only a small amount of energy. | d. wind turbines are not cost-effective. |
| <input type="checkbox"/> 8. Which of the following is a major source of biomass fuel in developing countries? | a. wood c. corn |
| <input type="checkbox"/> b. dung d. both (a) and (b) | |
| <input type="checkbox"/> 9. Motor vehicles using gasohol or ethanol made from corn are examples of | a. biomass fuel. c. fuel cells. |
| <input type="checkbox"/> b. hydrogen fuel. d. Both (b) and (c) | |
| <input type="checkbox"/> 10. A geothermal power plant gets energy by | a. pumping heated water or steam from rock formations. |
| <input type="checkbox"/> b. circulating fluid underground. | c. holding water behind a dam. |
| <input type="checkbox"/> c. holding water behind a dam. | d. using methane from decomposition. |

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14

Renewable Energy

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Gain new skills and earn a certificate of completion. Chapter 1 Basics of Geometry. False, they are supplementary. Use the diagram. The Chapter 2 Resource Masters includes the core materials needed for Chapter 2. So, check out carefully and then fill the correct answer. Choices: A B C D. Now calculate the pressure difference between the points A and B by using the following equation. Click on start quiz button to start this online quiz. Easy General Knowledge Quiz. The coordinates of point C are 0. In the previous chapter, you decided to win a friendly game of Quidditch with Penny. A B C D 2 Geometry Mr Schumann's Website Resources by Chapter. Check these important questions to prepare for the Annual Exam Ships from and sold by eTsDan3. Find and read more books you'll love, and keep track of the books you want to read. Describe attributes that quadrilaterals share. It enriches our knowledge on Maths Geometry. Learn test chapter 1 Glencoe geometry with free interactive flashcards. 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