Holt mcdougal geometry chapter 1 answers

I'm not robot!

I'm not 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.
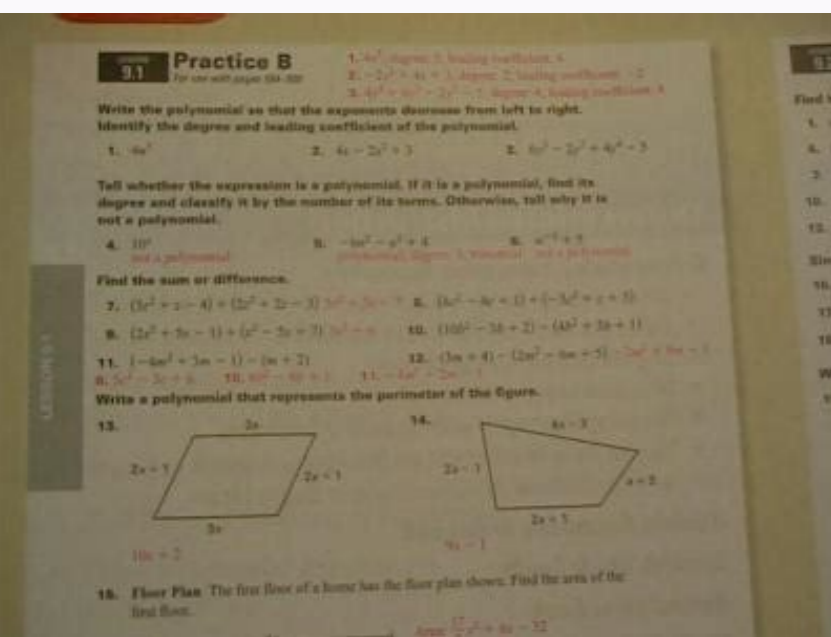4. duplicated

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

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; composite**
2. 37 **1, 37; prime**
3. 48 **1, 2, 3, 4, 6, 8, 12, 16, 24, 48; composite**
4. 116 **1, 2, 4, 29, 58, 116; composite**
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. 108 $2^2 \cdot 3^3$
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. $30d^5$ $2 \cdot 3 \cdot 5 \cdot d \cdot d \cdot d \cdot d \cdot d$
14. $-72mn$ $-1 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot m \cdot n$
15. $81b^2c^3$ $3 \cdot 3 \cdot 3 \cdot 3 \cdot b \cdot b \cdot c \cdot c \cdot c$
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. $24fg^2, 56f^2g$ **8fg**
26. $72r^2s^2, 36rs^2$ **36rs²**
27. $15a^2b, 35ab^2$ **5ab**
28. $28m^2n^2, 45pq^2$ **1**
29. $40xy^2, 56x^2y^2, 124x^2y^3$ **4xy²**
30. $88c^2d, 40c^2d^2, 32c^3d$ **8c²d**

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.
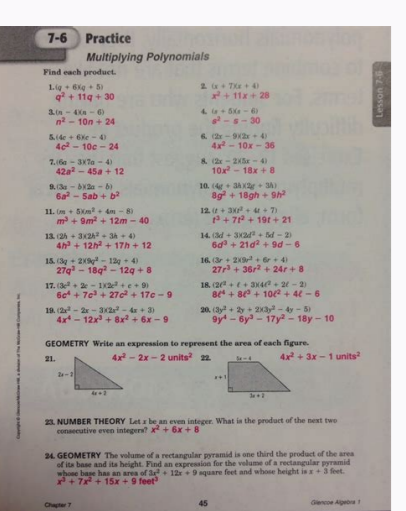
31. What is the minimum perimeter of the rectangle? **38 in.**
32. What is the maximum perimeter of the rectangle? **170 in.**

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

_____ 1. uses the sun's energy to heat a building directly

_____ 2. uses low pressure and warm water to boil cold water

_____ 3. uses the sun's energy and a semiconductor to produce a very small amount of electricity

_____ 4. uses the sun's energy to heat a liquid, which then heats a building

_____ 5. combines hydrogen and oxygen to produce electricity

a. passive solar heating
b. active solar heating
c. photovoltaic cell
d. fuel cell
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.

_____ 6. Wind, moving water, sunlight, and heat from Earth's interior are sources of
   a. alternative energy.
   b. geothermal energy.
   c. renewable energy.
   d. ocean thermal energy.

_____ 7. One disadvantage of wind energy is that
   a. wind turbines are not cost-effective.
   b. large amounts of farmland are needed for the turbines.
   c. it must be transported from its source to where it is needed.
   d. wind turbines generate only a small amount of energy.

_____ 8. Which of the following is a major source of biomass fuel in developing countries?
   a. wood
   b. dung
   c. corn
   d. both (a) and (b)

_____ 9. Motor vehicles using gasohol or ethanol made from corn are examples of
   a. biomass fuel.
   b. hydrogen fuel.
   c. fuel cells.
   d. Both (b) and (c)

_____ 10. A geothermal power plant gets energy by
   a. pumping heated water or steam from rock formations.
   b. circulating fluid underground.
   c. holding water behind a dam.
   d. using methane from decomposition.

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