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Lesson 1 Mendel and His Peas

Sean Lesson 1. Read the lesson files and hold words. Look at the pictures. Identify three facts that you discovered about Mendel and his peas. Record your facts in your science journal.

Main Idea
 Early Ideas About Heredity
 I found this on page 149

Details
 Define heredity:
 Heredity: the passing of traits from parents to offspring.

Describe genetics, and explain why Gregor Mendel is known as the father of genetics.
 Genetics is the study of how traits are passed from parents to offspring. Gregor Mendel is known as the father of genetics because 150 years ago, he performed experiments that helped to explain how traits are passed from parent to offspring.

Mendel's Experimental Methods
 I found this on page 150

Identify three reasons why Mendel chose pea plants for his genetic studies.
 1. They reproduce quickly.
 2. They have easily observed traits.
 3. Reproduction could be controlled.

Sequence the 2 ways pea plants pollinate:
 sperm (pollen) + eggs = self-pollination
 from the same plant
 sperm (pollen) + eggs = cross-pollination
 from different plants

Detail the 2 ways in which cross-pollination can occur:

Cross-Pollination

Occurs naturally by
 1. wind
 2. water
 3. animals

Occurs artificially by
 1. humans

CHAPTER 7 Solutions Key Exponents and Polynomials

ARE YOU READY? PAGE 443

1. F
2. B
3. C
4. D
5. E
6. 4^7
7. 5^2
8. $(-10)^4$
9. 4^3
10. 4^5
11. 9^1
12. 3^4
= $3 \cdot 3 \cdot 3 \cdot 3$
= 81
13. -12^3
= $-(12 \cdot 12 \cdot 12)$
= -144
14. 5^3
= $5 \cdot 5 \cdot 5$
= 125
15. 2^5
= $2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$
= 32
16. 4^3
= $4 \cdot 4 \cdot 4$
= 64
17. $(-1)^5$
= $(-1)(-1)(-1)(-1)(-1)$
= -1
18. 0.06
19. 2,525,000
20. 15.6
21. $6 + 3p + 14 + 9p$
= $6 + 14 + 3p + 9p$
= $20 + 12p$
22. $8y - 4x + 2y + 7x - x$
= $8y + 2y - 4x + 7x - x$
= $10y + 2x$
23. $(12 + 3w - 5) + 6w - 3 - 5w$
= $12 - 5 - 3 + 3w + 6w - 5w$
= $4 + 4w$
24. $6n - 14 + 5n$
= $6n + 5n - 14$
= $11n - 14$
25. no
26. yes; $\sqrt{81} = \sqrt{9^2} = 9$
27. yes; $\sqrt{36} = \sqrt{6^2} = 6$
28. no
29. yes; $\sqrt{100} = \sqrt{10^2} = 10$
30. yes; $\sqrt{4} = \sqrt{2^2} = 2$
31. yes; $\sqrt{1} = \sqrt{1^2} = 1$
32. no

7-1 INTEGER EXPONENTS, PAGES 446-451

CHECK IT OUT! PAGES 447-448

1. $5^{-3} = \frac{1}{5^3} = \frac{1}{5 \cdot 5 \cdot 5} = \frac{1}{125}$
 5^{-3} m is equal to $\frac{1}{125}$ m.

2a. $10^{-4} = \frac{1}{10^4} = \frac{1}{10 \cdot 10 \cdot 10 \cdot 10} = \frac{1}{10,000}$

b. $(-2)^{-4} = \frac{1}{(-2)^4} = \frac{1}{(-2)(-2)(-2)(-2)} = \frac{1}{16}$

c. $(-2)^{-3} = \frac{1}{(-2)^3} = \frac{1}{(-2)(-2)(-2)} = \frac{1}{-32}$

d. $-2^{-5} = -\frac{1}{2^5} = -\frac{1}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2} = -\frac{1}{32}$

3a. $p^{-3} = \frac{1}{p^3}$
= $\frac{1}{4^3}$
= $\frac{1}{4 \cdot 4 \cdot 4}$
= $\frac{1}{64}$

b. $6a^{-2}b^0$
= $6(-2)^{-2}(6)^0$
= $6 \cdot \frac{1}{(-2)^2} \cdot 1$
= $6 \cdot \frac{1}{(-2)(-2)}$
= $6 \cdot \frac{1}{4}$
= $\frac{6}{4} = \frac{3}{2}$

4a. $2^2m^{-3} = 2 \cdot 2 \cdot m^{-3}$
= $2 \cdot 1 \cdot \frac{1}{m^3}$
= $\frac{2}{m^3}$

b. $\frac{r^{-3}}{7} = r^{-3} \cdot \frac{1}{7}$
= $\frac{1}{7} \cdot \frac{1}{r^3}$
= $\frac{1}{7r^3}$

c. $\frac{g^4}{h^{-2}} = g^4 \cdot \frac{1}{h^{-2}}$
= $g^4 \cdot h^2$
= g^4h^2

THINK AND DISCUSS, PAGE 448

1. -2; 0; 1
- 2.

Simplifying Expressions with Negative Exponents

For a negative exponent in the numerator, move the power to the denominator and change the negative exponent to a positive exponent. Possible answer: $2^{-3} = \frac{1}{2^3}$.

For a negative exponent in the denominator, move the power to the numerator and change the negative exponent to a positive exponent. Possible answer: $2^{-3} = 2^3$.

EXERCISES, PAGES 449-451

GUIDED PRACTICE, PAGE 449

1. $10^{-7} = \frac{1}{10^7} = \frac{1}{10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10}$
= $\frac{1}{10,000,000}$ m
 10^{-7} m is equal to $\frac{1}{10,000,000}$ m.

2. $6^{-2} = \frac{1}{6^2} = \frac{1}{6 \cdot 6} = \frac{1}{36}$

3. $3^3 = 27$

4. $-5^{-2} = -\frac{1}{5^2} = -\frac{1}{5 \cdot 5} = -\frac{1}{25}$

Study Guide B

Answer Key

SECTION 1. CHROMOSOMES AND MEIOSIS

1. somatic/body cells; germ cells/gametes
2. in the reproductive organs; testes and ovaries
3. 46
4. marker
5. father
6. autosomes
7. X
8. Y
9. female
10. Y chromosome
11. They fuse together.
12. gametes
13. 23
14. II; I
15. Mitosis makes diploid cells; Meiosis makes haploid cells; Mitosis makes genetically identical cells; Meiosis makes genetically unique cells; Mitosis happens throughout lifetime; Meiosis happens at specific times in an organism's life cycle; Mitosis involved in asexual reproduction; Meiosis involved in sexual reproduction
16. a pair of chromosomes, one from the mother and one from the father, that have the same genes, length, and overall appearance
17. autosomes; chromosomes that direct the body's development; all traits not directly related to sexual

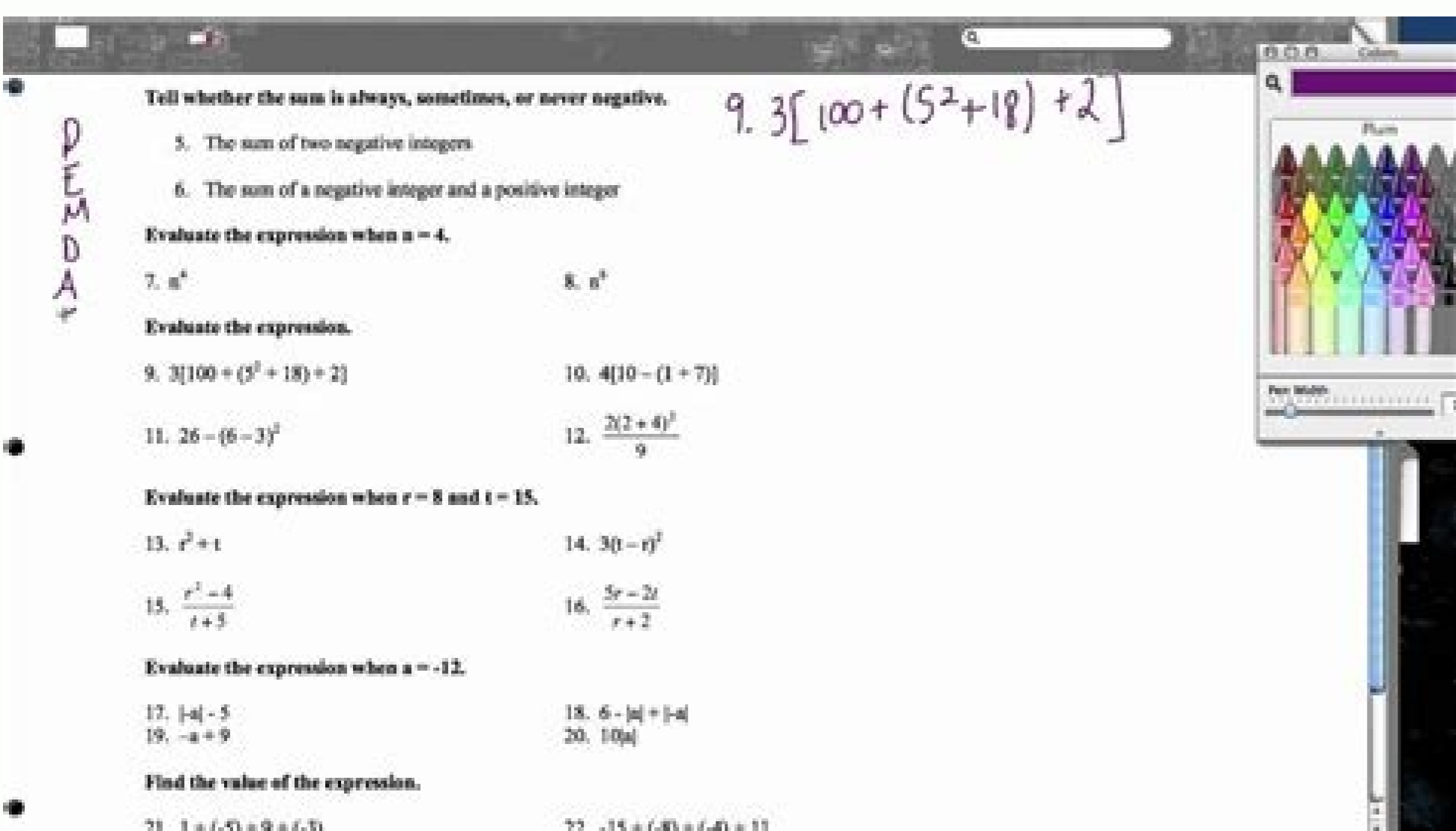
SECTION 2. PROCESS OF MEIOSIS

1. sister chromatid
2. homologous chromosomes
3. Refer to Figure 2.3 for visual answers: prophase I
4. metaphase I
5. anaphase I
6. telophase I
7. prophase II
8. metaphase II
9. anaphase II
10. telophase II

11. anaphase I
 12. anaphase II
 13. DNA
 14. DNA, organelles, molecular building blocks
 15. female
- Sperm Formation/Egg Formation:** Refer to Figure 2.4 for visual answers.
16. Gametogenesis is the "birth" or formation of gametes.
 17. cells produced by meiosis in the female body that remain little more than DNA and are eventually broken down

SECTION 3. MENDEL AND HEREDITY

1. the study of biological inheritance patterns and variation in organisms
2. Gregor Mendel
3. Mendel recognized that traits are inherited as discrete units, whereas many others believed that traits were mixed together.
4. covered over flooding; removed the stem and fertilized the plant with pollen from a pea plant of his choice
5. use of purebred plants; self and self-pollinating; purebred pea plants
6. studied "either-or" traits; looked at traits that did not have intermediate characteristics such as pea shape, pea color, flower color, pod shape, pod color, flower position, and plant height
7. Pea plants reproduce quickly, and he could control how they mate.
8. **Box 2:** Allowed F₁ offspring to self-pollinate. **Box 4:** Calculated the phenotypic ratios in the F₂ generation.
9. genes
10. Organisms inherit two copies of each gene, one from each parent. Dominant vegetable during gamete formation, so organisms donate only one copy of each gene in their gametes.
11. the discrete units, or genes; the result of the separation of chromosomes during meiosis
12. a genetically uniform line of organisms



Chapter 7 Answers

- Practice 7-1**
1. 8
 2. 4
 3. 60
 4. 240
 5. 2,015
 6. 130
 7. 0.0125
 8. 9
 9. 1,500
 10. 8.75
 11. 3.44
 12. 7
 13. 10
 14. 30
 15. 16
 16. 119
 17. 12
 18. 48
 19. 40
 20. 54

- Practice 7-2**
1. $\sqrt{5}$
 2. $4\sqrt{7}$
 3. $2\sqrt{65}$
 4. $\sqrt{7}$
 5. $2\sqrt{21}$
 6. $8\sqrt{2}$
 7. $200a^2$
 8. $24\sqrt{10} \text{ cm}^2$
 9. $35\sqrt{114} \text{ ft}^2$
 10. 46 in.
 11. 78 ft
 12. 279 cm
 13. 19 m
 14. acute
 15. right
 16. obtuse
 17. right
 18. obtuse
 19. acute

- Practice 7-3**
1. $x = 2y = \sqrt{3}$
 2. $x = 4z; y = 4\sqrt{3}$
 3. $c = \frac{30\sqrt{2}}{11}; d = \frac{10\sqrt{2}}{11}$
 4. $8\sqrt{2}$
 5. $14\sqrt{2}$
 6. $\frac{30\sqrt{2}}{11}$
 7. 2
 8. $y = 15; z = 15\sqrt{3}$
 9. $3\sqrt{3}$
 10. 42 cm
 11. 35 in.
 12. 16.4 ft, 12 ft
 13. 170 m²
 14. $w = \frac{10\sqrt{2}}{3}; x = 3y = 5\sqrt{2}; z = \frac{5\sqrt{2}}{3}$
 15. $a = 4; b = 3$
 16. $p = 4\sqrt{3}; q = 4\sqrt{3}; r = 8; s = 4\sqrt{6}$

- Practice 7-4**
1. 48 cm²
 2. 784 in²
 3. 114 ft²
 4. 90 m²
 5. 1400 m²
 6. 274 ft²
 7. 160 cm²
 8. 178.25 in²
 9. 34 ft²
 10. 41.5 square units
 11. $80\sqrt{5}$ square units
 12. $36\sqrt{3}$ square units
 13. 45 cm²
 14. 226.2 m²
 15. 49,500 m²

- Practice 7-5**
1. $x = 3y = 3\sqrt{3}$
 2. $a = 60; c = \frac{30\sqrt{2}}{11}; d = \frac{10\sqrt{2}}{11}$
 3. $p = 4\sqrt{3}; q = 4\sqrt{3}; r = 8; s = 4\sqrt{6}$
 4. $m\angle 1 = 45; m\angle 2 = 45$
 5. $m\angle 3 = 90; m\angle 4 = 90$
 6. $m\angle 5 = 90; m\angle 6 = 90$
 7. $m\angle 7 = 150$
 8. $m\angle 8 = 30; m\angle 9 = 30; m\angle 10 = 90$
 9. $12\sqrt{3}$
 10. $36\sqrt{3}$
 11. $25\sqrt{3}$
 12. 120 m²
 13. 171 m²
 14. 99 m²

- Practice 7-6**
1. 32x
 2. 16x
 3. 7.5x
 4. Sample: DPA, ABP
 5. Sample: FE, FD
 6. Sample: FEB, EDA
 7. Sample: FE, ED
 8. $\angle ACB$
 9. $\angle CDB$
 10. 32
 11. 45
 12. 54
 13. 59
 14. 71
 15. 90
 16. 80
 17. 220
 18. 148
 19. 220
 20. 130
 21. 67 in.
 22. 164 cm
 23. $\frac{2}{3}x$ ft

- Practice 7-7**
1. 48x
 2. 21z
 3. $\frac{30}{11}x$
 4. $\frac{10}{11}z$
 5. $\frac{1}{11}x$ or $\frac{1}{11}z$
 6. $\frac{1}{11}x$ or $\frac{1}{11}z$
 7. $\frac{1}{11}x$ or $\frac{1}{11}z$
 8. $\frac{1}{11}x$ or $\frac{1}{11}z$
 9. 4x
 10. $\frac{30}{11}x$
 11. $\frac{10}{11}z$
 12. $\frac{1}{11}x$
 13. $\frac{10}{11}z$
 14. 4x
 15. $\frac{30}{11}x$
 16. $\frac{10}{11}z$
 17. $\frac{1}{11}x$
 18. $\frac{10}{11}z$
 19. 4x
 20. 10

- Practice 7-8**
1. 6.7%
 2. 18.9%
 3. 65.3%
 4. $\frac{1}{11}$
 5. $\frac{10}{11}$
 6. $\frac{1}{11}$
 7. $\frac{10}{11}$
 8. 1
 9. $\frac{1}{11}$
 10. 22.2%
 11. 4.0%
 12. 57.5%
 13. 20%
 14. 54%
 15. 49%
 16. $1\frac{2}{3}\%$

- Reteaching 7-1**
1. Sample:
 2. Sample:

3. 20 cm²
4. 55 in²
5. 6 m
6. 8 ft
7. 4 in.
8. Sample:

9. 5 in.
10. 23 cm
11. 8 ft

- Reteaching 7-2**
- 1-2. Sample:

3. Sample: 4, 16, and 25
4. They are equal.
5. The sum of the squares of the two legs equals the square of the hypotenuse.
6. $4\sqrt{5}$
7. $1\sqrt{2}$
8. 6
9. 6

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