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The *Full Solution Answer Key* provides answers to all *Mathematics 7* exercises. If needed, solutions are given. Each component is designated by color.

- teal – exercises from textbook
- gray – solutions
- black – answers

Unit 1

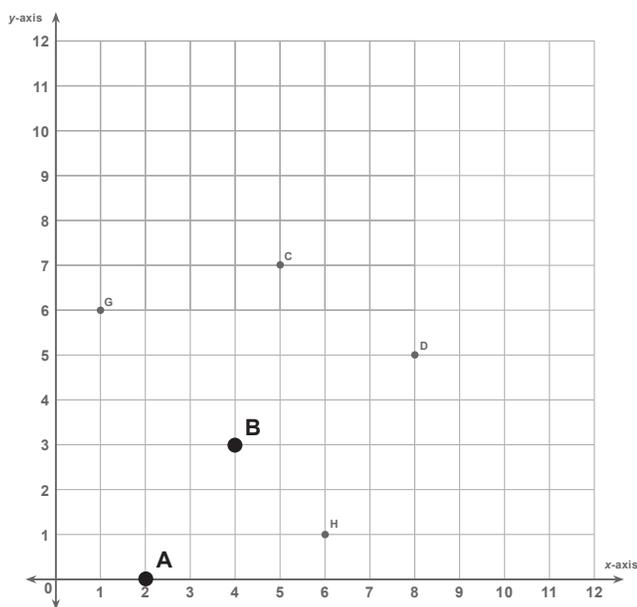
Lesson 1

Page 2

1. 0 e
2. 4 a
3. 2 c
4. 4 b
5. 11 d
6. e a

Page 3

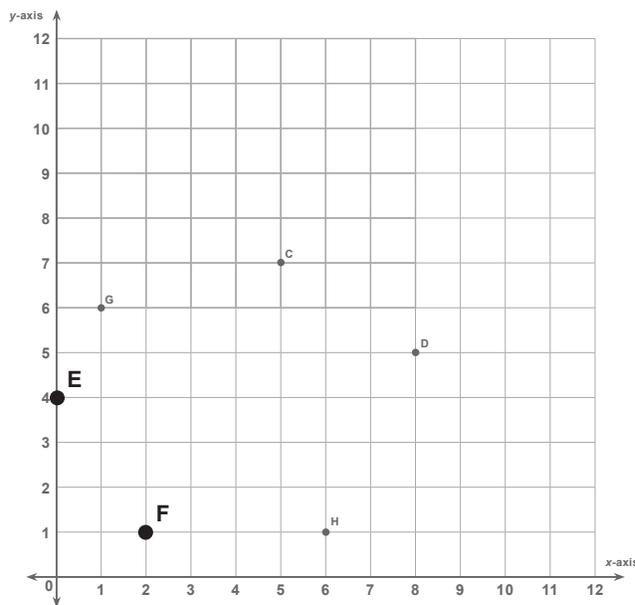
7, 8. From Worksheet 1
Worksheet 1 is also used for
Numbers 16 and 17.



9. (5, 7)
10. (8, 5)
11. identity property of multiplication
12. commutative property of multiplication
13. zero property of multiplication
14. commutative property of addition
15. identity property of addition

Page 4

16, 17. From Worksheet 1
Worksheet 1 is also used for
Numbers 7 and 8.



18. (1, 6)
19. (6, 1)
20.
$$\begin{array}{r} 81\ 11 \\ 49,220 \\ -45,917 \\ \hline 3,303 \end{array}$$
21.
$$\begin{array}{r} 31\ 24 \\ 1\ 1\ 1 \\ \times 52 \\ \hline 52498 \\ 1312450 \\ \hline 1,364,948 \end{array}$$
22.
$$\begin{array}{r} 8139\ 91 \\ \$940.02 \\ - 71.54 \\ \hline \$868.48 \end{array}$$
23.
$$\begin{array}{r} 4\ 24 \\ 2\ 12 \\ \times 37.138 \\ \hline 111414 \\ 2228280 \\ \hline 23.39694 \end{array}$$

Unit 1 Lessons 1, 2

$$\begin{array}{r}
 22 \\
 24. \quad 726 \\
 \quad 662 \\
 \quad 254 \\
 \quad \quad 78 \\
 \quad +169 \\
 \hline
 1,889
 \end{array}$$

$$\begin{array}{r}
 22 \\
 25. \quad 270 \\
 \quad 49 \\
 \quad 300 \\
 \quad 876 \\
 \quad +179 \\
 \hline
 1,674
 \end{array}$$

$$\begin{array}{r}
 393 \\
 26. \quad 8 \overline{)3,144} \\
 \quad 24 \\
 \quad \underline{74} \\
 \quad \quad 72 \\
 \quad \quad \underline{24} \\
 \quad \quad \quad 24 \\
 \quad \quad \quad \underline{24} \\
 \quad \quad \quad \quad 0
 \end{array}$$

$$\begin{array}{r}
 474 \\
 27. \quad 9 \overline{)4,266} \\
 \quad 36 \\
 \quad \underline{66} \\
 \quad \quad 63 \\
 \quad \quad \underline{36} \\
 \quad \quad \quad 36 \\
 \quad \quad \quad \underline{36} \\
 \quad \quad \quad \quad 0
 \end{array}$$

$$\begin{array}{r}
 1 \\
 28. \quad 4.700 \\
 \quad 2.730 \\
 \quad +9.421 \\
 \hline
 16.851
 \end{array}$$

29. 9

30. 144

31. 1

32. 196

33. 225

34. 25

35. 16

36. 169

37. 49

38. 4

39. 100

40. 121

41. 64

42. 36

43. 81

44. 11

45. 6

46. 3

47. 10

48. 13

49. 5

50. 4

51. 2

52. 14

53. 8

54. 15

55. 9

56. 1

57. 7

58. 12

Lesson 2

Page 5

$$\begin{array}{l}
 1. \quad (3 + 4)(9 - 3) \\
 \quad 7(9 - 3) \\
 \quad 7 \cdot 6 \\
 \quad 42
 \end{array}$$

$$\begin{array}{l}
 2. \quad 8 - 3 \cdot 2 + 6 \\
 \quad 8 - 6 + 6 \\
 \quad 2 + 6 \\
 \quad 8
 \end{array}$$

$$\begin{array}{l}
 3. \quad \frac{8}{2} + 3 \cdot 7 - 5 \\
 \quad 4 + 3 \cdot 7 - 5 \\
 \quad 4 + 21 - 5 \\
 \quad 25 - 5 \\
 \quad 20
 \end{array}$$

$$\begin{array}{l}
 4. \quad (8 - 3)2 + 6 \\
 \quad 5 \cdot 2 + 6 \\
 \quad 10 + 6 \\
 \quad 16
 \end{array}$$