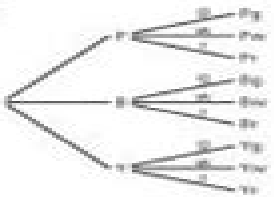
CHAPTER 11

Solutions Key

Probability and Statistics

ARE YOU READY? PAGE 791

1. B
2. E
3. A
4. C
5.



6. $1 - \frac{14}{20} = \frac{20}{20} - \frac{14}{20} = \frac{6}{20} = \frac{3}{10}$
7. $\frac{3}{8} + \frac{5}{6} = \frac{9}{24} + \frac{20}{24} = \frac{29}{24}$
8. $\frac{8}{15} - \frac{2}{5} = \frac{8}{15} - \frac{6}{15} = \frac{2}{15}$
9. $\frac{1}{12} + \frac{1}{10} = \frac{5}{60} + \frac{6}{60} = \frac{11}{60}$
10. $\frac{1}{2} \cdot \frac{3}{7} = \frac{3}{14}$
11. $2\frac{1}{3} \cdot \frac{1}{4} = \frac{7}{3} \cdot \frac{1}{4} = \frac{7}{12}$
12. $\frac{4}{5} \div \frac{1}{2} = \frac{4}{5} \cdot \frac{2}{1} = \frac{8}{5}$
13. $5\frac{1}{3} \div \frac{1}{4} = \frac{16}{3} \div \frac{1}{4} = \frac{16}{3} \cdot \frac{4}{1} = \frac{64}{3}$
14. 7% of 150 = x
    $0.07(150) = x$
    $x = 10.5$
15. 90% of x = 45
    $0.9x = 45$
    $x = 50$
16. Price increased by 12% of 24 = 0.12(24) = $2.88
17. The amount of water to be changed is 20% of 65 = 0.20(65) = 13 gal.
18. 2, 4, 4, 6, 9
    mean: 5
    median: 4
    mode: 4
19. 1, 1, 1, 2, 2, 2
    mean: 1.5
    median: 1.5
    mode: 1, 2
20. 1, 2, 3, 4, 5, 6
    mean: 3.5
    median: 3.5
    mode: none
21. 3, 14, 14, 18, 18, 18, 20
    mean: 15
    median: 18
    mode: 18

11-1 PERMUTATIONS AND COMBINATIONS, PAGES 794–800

CHECK IT OUT!

1a. start plot end
$6 \times 4 \times 5 = 120$
There are 120 adventures.

b. letter letter letter letter digit
$52 \times 52 \times 52 \times 52 \times 10 = 73{,}116{,}160$
There are 73,116,160 possible passwords.

2a. $_8P_3 = \frac{8!}{(8-3)!} = \frac{8!}{5!}$
$= \frac{8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$
$= 8 \cdot 7 \cdot 6 = 336$
There are 336 ways to award the costumes.

b. $_5P_2 = \frac{5!}{(5-2)!} = \frac{5!}{3!}$
$= \frac{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{3 \cdot 2 \cdot 1}$
$= 5 \cdot 4 = 20$
There are 20 ways a 2-digit number can be formed.

3. The order does not matter. It is a combination.
$_8C_2 = \frac{8!}{2!(8-2)!} = \frac{8!}{2!6!}$
$= \frac{8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{2 \cdot 1(6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1)}$
$= \frac{8 \cdot 7}{2 \cdot 1} = 28$
There are 28 ways to select 2 swimmers from 8.

THINK AND DISCUSS

1. Possible answer: selecting a 9-player batting order from 20 players; selecting 3 magazine subscriptions from a list of 20
2. 1; possible answer: there is only 1 way to choose the entire group from a group.
3. Possible answer: the number of ways to select 4 items from 3; you can't select more than the total number of items.
4.

	Fundamental Counting Principle	Permutation	Combination
Formula	$m_1 \cdot m_2 \cdot \ldots \cdot m_n$	$\frac{n!}{(n-r)!}$	$\frac{n!}{(n-r)!}$
Examples	5 ducts × 3 ducts × 6 pairs of shoes = 5 × 3 × 6 outfits	Permutations of 8 items taken 5 at a time $\frac{8!}{(8-5)!} = \frac{8!}{3!} = 336$	2 items chosen from 8 $\frac{8!}{2!(8-2)!} = \frac{8!}{2!6!} = 28$

EXERCISES

GUIDED PRACTICE

1. important; permutation
2. blouse jacket skirt
   $3 \times 3 \times 2 = 18$
   There are 18 different outfits.
3. digit letter
   $9 \times 25 = 225$
   There are 225 different codes.
4. $_7P_2 = \frac{7!}{(7-2)!} = \frac{7!}{5!}$
   $= 7 \cdot 6 = 42$
   There are 42 ways to schedule the 2 activities.

Holt Algebra Answer Key Chapter 11

Simon Newcomb

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Logic and Boolean Algebra Bradford Henry Arnold,2011-01-01 Orignally published Englewood Cliffs N J Prentice Hall 1962 **Certain Number-Theoretic Episodes In Algebra, Second Edition** R Sivaramakrishnan,2019-03-19 The book attempts to point out the interconnections between number theory and algebra with a view to making a student understand certain basic concepts in the two areas forming the subject matter of the book Lab Activity and Project Holt, Rinehart and Winston Staff,1997 **Forthcoming Books** Rose Arny,2003-04 *Algebra 1* Holt Rinehart & Winston,2001

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