

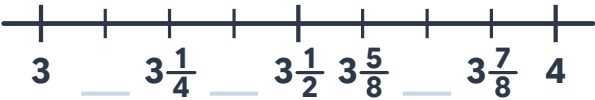
Data and Probability

Unit Test, Form A (page 1 of 2)

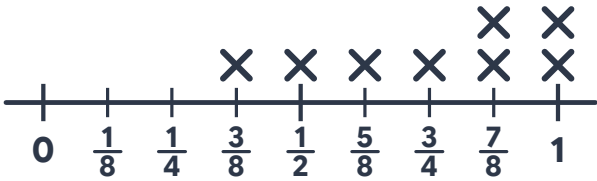
Score _____ / 14

1. Write the missing labels. Then plot the lengths.

Bean pods (inches)	$3\frac{1}{4}$	$3\frac{5}{8}$	$3\frac{1}{2}$	$3\frac{5}{8}$
	$3\frac{7}{8}$	$3\frac{1}{4}$	$3\frac{3}{8}$	$3\frac{1}{2}$



2. Answer in simplest form.



Water in 8 beakers (liters)

- a. How much water in all? _____ liters
- b. Share all the water equally. How much is in each beaker? _____ liters
- c. How much more is in the fullest beaker than in the emptiest? _____ liters

3. Circle the question that needs data and how to collect it.

How long is each student's foot?

What is the name of our town?

survey measure observe

4. Find the mean.

Minutes of piano practice on 6 days:

35, 20, 45, 30, 25, 43

Mean _____ minutes

5. Find the median, mode and range. Then circle one.

Laps 7 students swam:

9, 32, 8, 11, 6, 8, 10

Mean: 12

Median _____ Mode _____ Range _____

Which does the 32 change most?

mean median mode

6. Make a stem-and-leaf plot. Then fill in the frequency table.

Points scored in 10 games:

34, 52, 47, 38, 41, 55, 47, 36, 59, 43

Stem	Leaves in order
3	
4	
5	

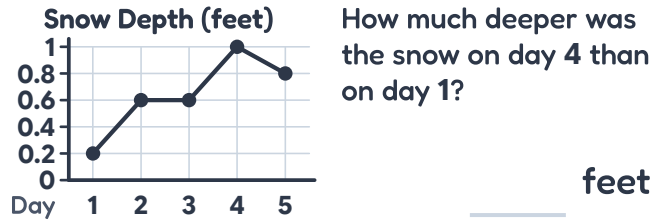
Points	Frequency
30 to 39	
40 to 49	
50 to 59	

Key: 4 | 1 means 41

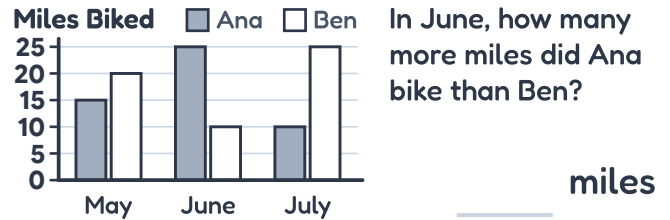
Data and Probability

Unit Test, Form A (page 2 of 2)

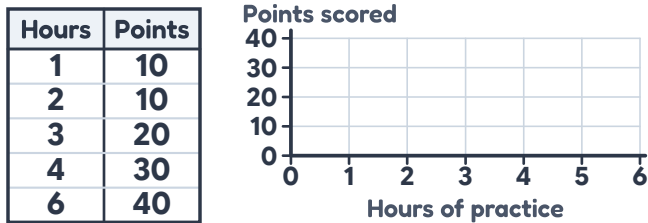
7. Use the line graph.



8. Use the double bar graph.



9. Plot the pairs. Circle the trend.



As the hours go up, the points tend to:

go up go down stay the same

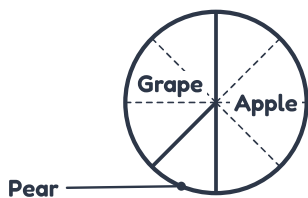
10. Use the histogram.



How many students walk 10 minutes or more?

11. Use the circle graph.

Favorite Fruit



40 students voted.
How many chose grapes?

12. Pick one without looking. Write each probability as a fraction.

(B)(R)(B)(B)(R)(B)(B)(R)(B)(B)

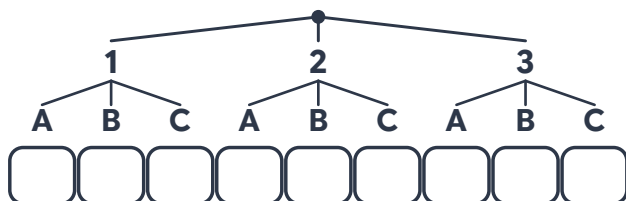
B = blue, R = red

a. a blue marble

b. a green marble

c. a red or blue marble

13. Write each outcome of the tree.



14. Multiply to find how many.

A lunch is one of 4 sandwiches and one of 7 drinks. How many different lunches?

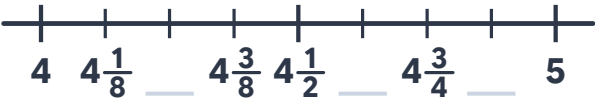
Data and Probability

Unit Test, Form B (page 1 of 2)

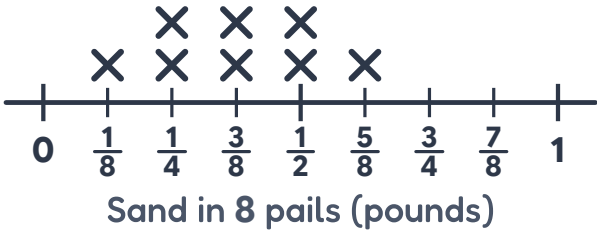
Score _____ / 14

1. Write the missing labels. Then plot the lengths.

Twigs (inches)	$4\frac{3}{8}$	$4\frac{3}{4}$	$4\frac{1}{2}$	$4\frac{3}{8}$
	$4\frac{1}{8}$	$4\frac{3}{4}$	$4\frac{5}{8}$	$4\frac{1}{2}$



2. Answer in simplest form.



- a. How much sand in all? _____ pounds
- b. Share all the sand equally. How much is in each pail? _____ pounds
- c. How much more is in the fullest pail than in the emptiest? _____ pounds

3. Circle the question that needs data and how to collect it.

Which game do 5th graders like best?

How many sides does a hexagon have?

experiment survey measure

4. Find the mean.

Push-ups in 6 tries:

22, 31, 18, 27, 35, 23

Mean _____ push-ups

5. Find the median, mode and range. Then circle one.

Dollars 7 friends saved:

17, 14, 52, 12, 20, 14, 18 Mean: 21

Median _____ Mode _____ Range _____

Which does the 52 change most?

mean median mode

6. Make a stem-and-leaf plot. Then fill in the frequency table.

Heights of 10 cornstalks (inches):

62, 75, 81, 68, 77, 64, 85, 79, 70, 66

Stem	Leaves in order
6	
7	
8	

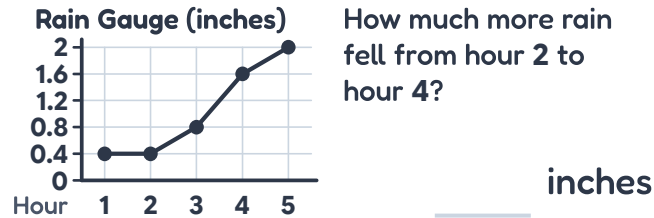
Inches	Frequency
60 to 69	
70 to 79	
80 to 89	

Key: 7 | 0 means 70

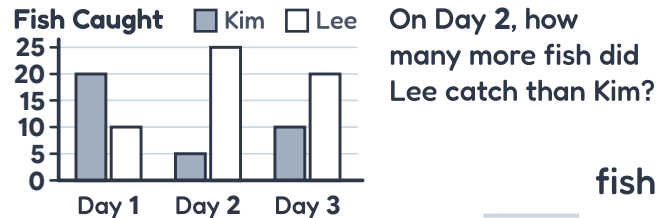
Data and Probability

Unit Test, Form B (page 2 of 2)

7. Use the line graph.



8. Use the double bar graph.



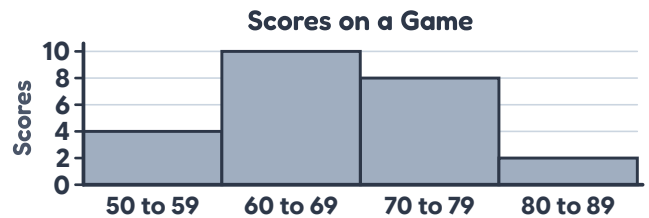
9. Plot the pairs. Circle the trend.



As screen time goes up, sleep tends to:

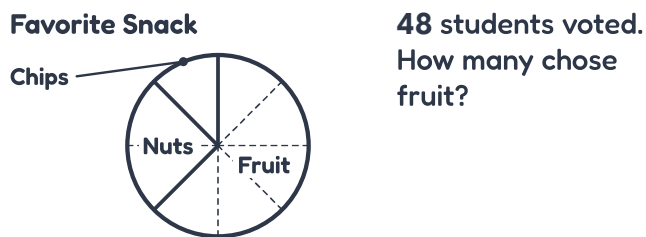
go up go down stay the same

10. Use the histogram.



How many scores are **70** or more?

11. Use the circle graph.



12. Pick one without looking. Write each probability as a fraction.

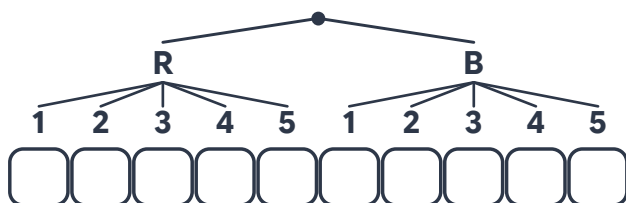
Ⓔ Ⓔ Ⓕ Ⓔ Ⓔ Ⓔ Ⓕ Ⓔ Ⓔ G = green, Y = yellow

a. a yellow marble _____

b. a blue marble _____

c. a green or yellow marble _____

13. Write each outcome of the tree.



14. Multiply to find how many.

An outfit is one of **6** shirts and one of **8** caps. How many different outfits?

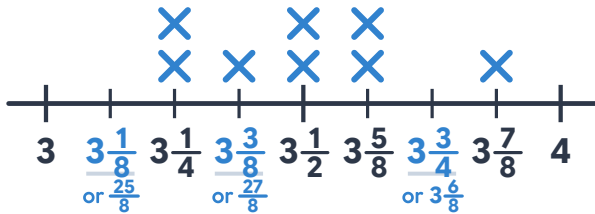
Data and Probability

Unit Test, Form A (page 1 of 2)

Score _____ / 14

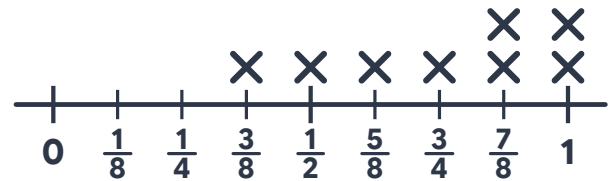
1. Write the missing labels. Then plot the lengths.

Bean pods (inches)	$3\frac{1}{4}$	$3\frac{5}{8}$	$3\frac{1}{2}$	$3\frac{5}{8}$
	$3\frac{7}{8}$	$3\frac{1}{4}$	$3\frac{3}{8}$	$3\frac{1}{2}$



Lesson 15.1 · Make a line plot in eighths

2. Answer in simplest form.



Water in 8 beakers (liters)

- a. How much water in all? 6 liters
- b. Share all the water equally. How much is in each beaker? $\frac{3}{4}$ liters
- c. How much more is in the fullest beaker than in the emptiest? $\frac{5}{8}$ liters

Lesson 15.2 · Solve problems with a line plot

3. Circle the question that needs data and how to collect it.

How long is each student's foot?

What is the name of our town?

survey

measure

observe

Lesson 15.3 · Plan how to collect data

4. Find the mean.

Minutes of piano practice on 6 days:

35, 20, 45, 30, 25, 43

Mean 33 minutes

Lesson 15.4 · The mean

5. Find the median, mode and range. Then circle one.

Laps 7 students swam:

9, 32, 8, 11, 6, 8, 10

Mean: 12

Median 9 Mode 8 Range 26

Which does the 32 change most?

mean

median

mode

Lesson 15.5 · Median, mode and range

6. Make a stem-and-leaf plot. Then fill in the frequency table.

Points scored in 10 games:

34, 52, 47, 38, 41, 55, 47, 36, 59, 43

Stem	Leaves in order
3	4 6 8
4	1 3 7 7
5	2 5 9

Points	Frequency
30 to 39	3
40 to 49	4
50 to 59	3

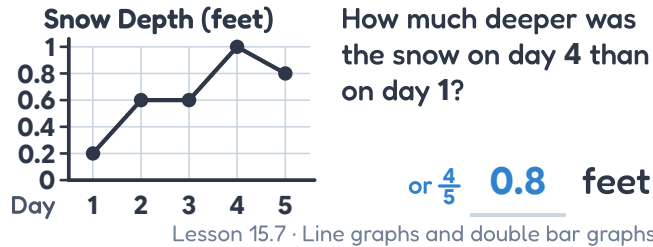
Key: 4 | 1 means 41

Lesson 15.6 · Stem-and-leaf plots and frequency tables

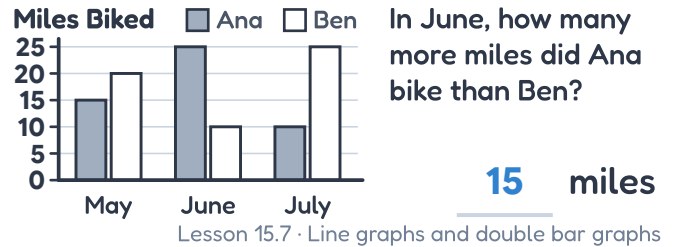
Data and Probability

Unit Test, Form A (page 2 of 2)

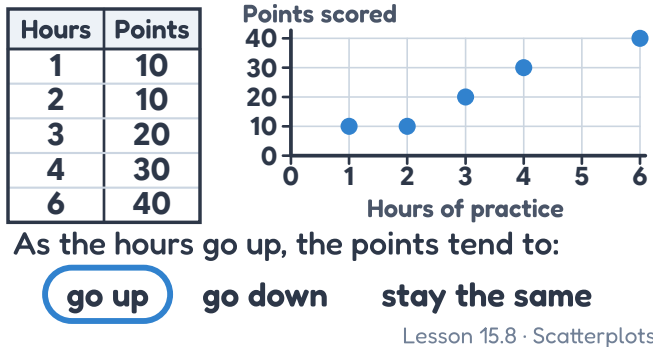
7. Use the line graph.



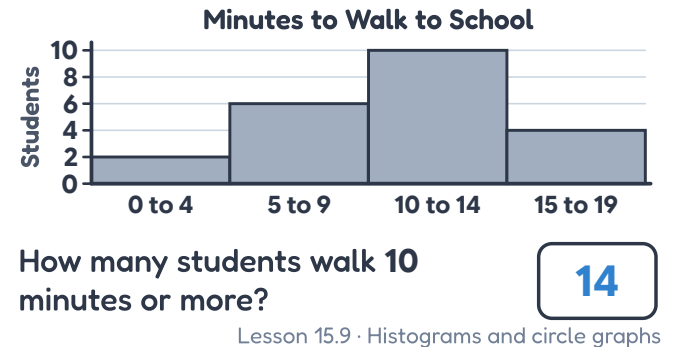
8. Use the double bar graph.



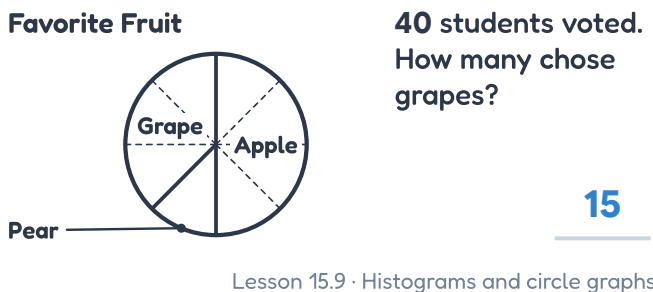
9. Plot the pairs. Circle the trend.



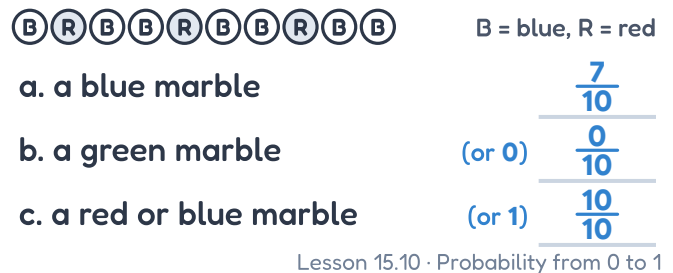
10. Use the histogram.



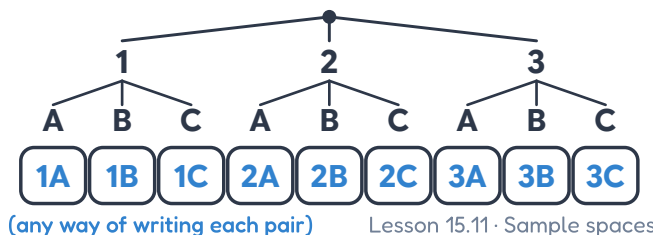
11. Use the circle graph.



12. Pick one without looking. Write each probability as a fraction.



13. Write each outcome of the tree.



14. Multiply to find how many.

A lunch is one of 4 sandwiches and one of 7 drinks. How many different lunches?

28

Lesson 15.11 · Sample spaces

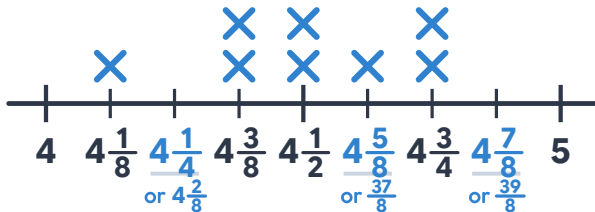
Data and Probability

Unit Test, Form B (page 1 of 2)

Score _____ / 14

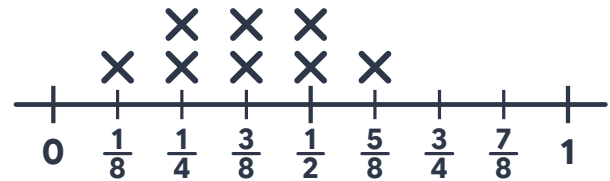
1. Write the missing labels. Then plot the lengths.

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	$4\frac{1}{8}$	$4\frac{3}{4}$	$4\frac{5}{8}$	$4\frac{1}{2}$



Lesson 15.1 • Make a line plot in eighths

2. Answer in simplest form.



Sand in 8 pails (pounds)

- a. How much sand in all? 3 pounds
 b. Share all the sand equally. How much is in each pail? $\frac{3}{8}$ pounds
 c. How much more is in the fullest pail than in the emptiest? $\frac{1}{2}$ pounds

Lesson 15.2 • Solve problems with a line plot

3. Circle the question that needs data and how to collect it.

Which game do 5th graders like best?

How many sides does a hexagon have?

experiment survey measure

Lesson 15.3 • Plan how to collect data

4. Find the mean.

Push-ups in 6 tries:

22, 31, 18, 27, 35, 23

Mean 26 push-ups

Lesson 15.4 • The mean

5. Find the median, mode and range. Then circle one.

Dollars 7 friends saved:

17, 14, 52, 12, 20, 14, 18

Mean: 21

Median 17 Mode 14 Range 40

Which does the 52 change most?

mean median mode

Lesson 15.5 • Median, mode and range

6. Make a stem-and-leaf plot. Then fill in the frequency table.

Heights of 10 cornstalks (inches):

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6	2 4 6 8
7	0 5 7 9
8	1 5

Inches	Frequency
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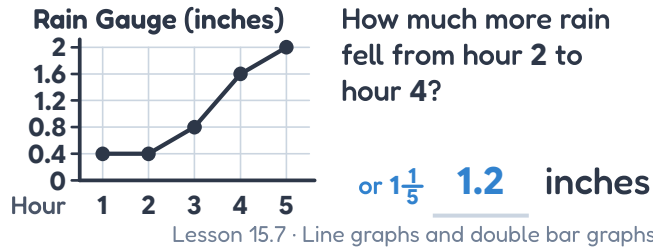
Key: 7 | 0 means 70

Lesson 15.6 • Stem-and-leaf plots and frequency tables

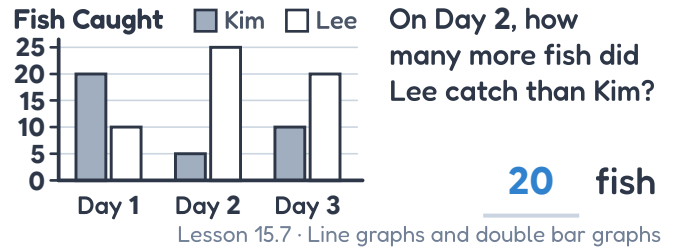
Data and Probability

Unit Test, Form B (page 2 of 2)

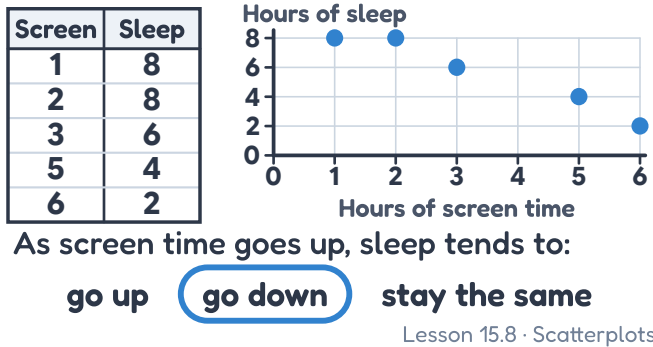
7. Use the line graph.



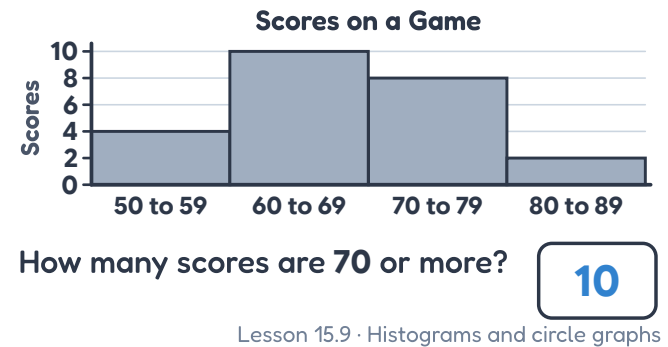
8. Use the double bar graph.



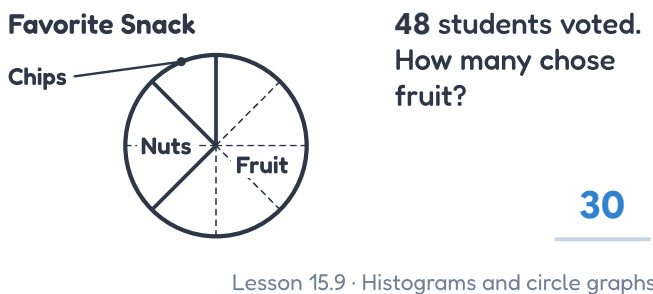
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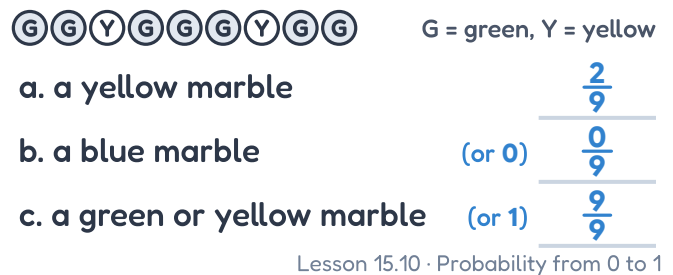
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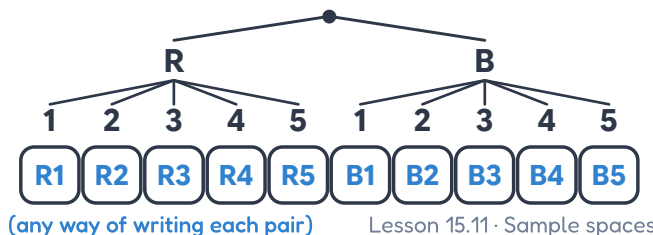
11. Use the circle graph.



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13. Write each outcome of the tree.



14. Multiply to find how many.

An outfit is one of 6 shirts and one of 8 caps. How many different outfits?

48

Lesson 15.11 · Sample spaces