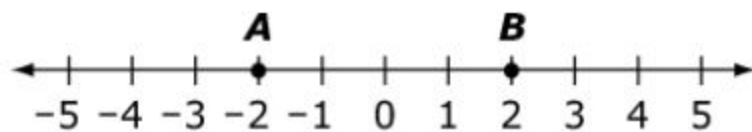


Question 1

Two points, A and B , are labeled on the number line.



What is the value of $A + B$?



1	2	3
4	5	6
7	8	9
0	.	-

Question 2

A fraction is shown.

$$\frac{5}{9}$$

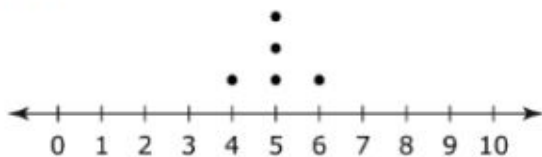
Which number is equivalent to the fraction?

- (A) 0.5
- (B) $0.\bar{5}$
- (C) $0.\overline{59}$
- (D) 5.9

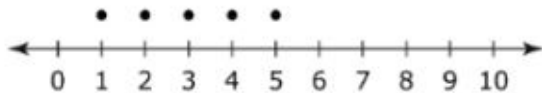
Question 3

Which pair of data sets provides no evidence that the values of Set A are greater than the values of Set B?

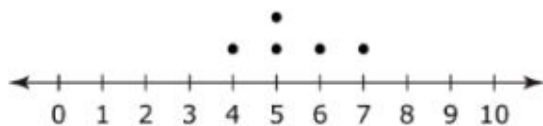
(A) Set A:



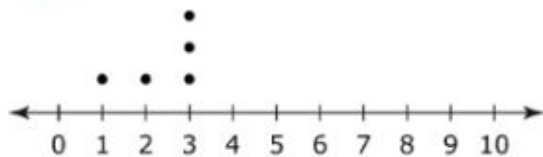
Set B:



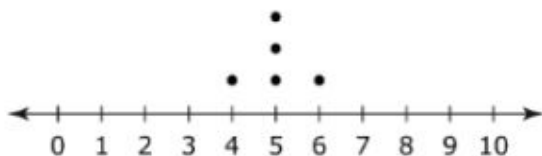
(C) Set A:



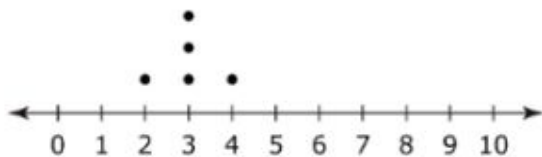
Set B:



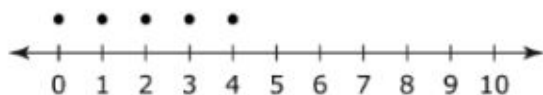
(B) Set A:



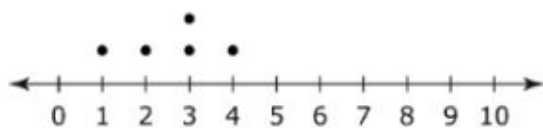
Set B:



(D) Set A:



Set B:



Question 4

Mary buys p peaches at the farmer's market for d dollars each. She spends a total of t dollars on peaches.

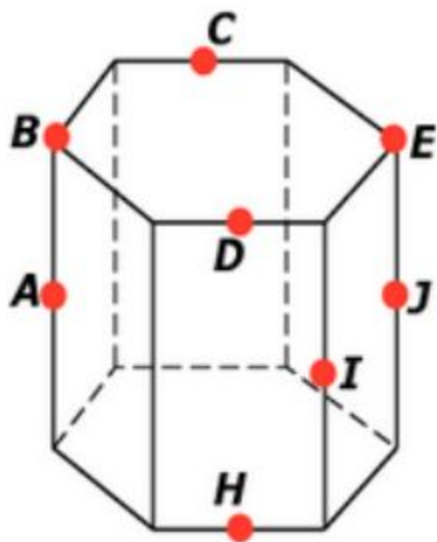
Create an equation that represents the relationship between t and p .



1	2	3	d	p	t				
4	5	6	+	-	•	÷			
7	8	9	<	≤	=	≥	>		
0	.	-	$\frac{\square}{\square}$	\square^\square	()		$\sqrt{\square}$	$\sqrt[\square]{\square}$	π

Question 5

A hexagonal prism is shown.



Select the shape that is formed by each cross section.

	Hexagon	Rectangle
Cross section through points <i>C</i> , <i>D</i> , and <i>H</i>	<input type="checkbox"/>	<input type="checkbox"/>
Cross section through points <i>A</i> , <i>I</i> , and <i>J</i>	<input type="checkbox"/>	<input type="checkbox"/>
Cross section through points <i>A</i> , <i>B</i> , <i>E</i> , and <i>J</i>	<input type="checkbox"/>	<input type="checkbox"/>

Question 6

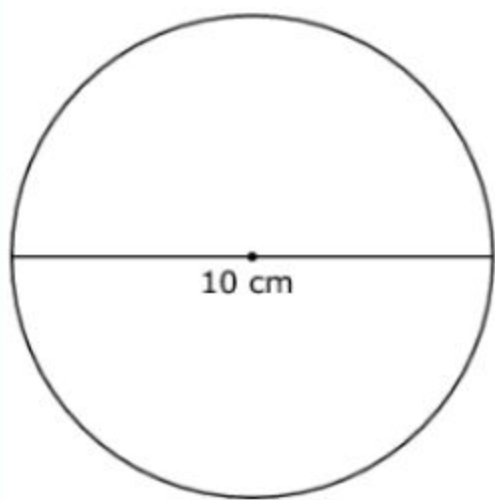
The table shows the number of songs and the length of each music playlist on an MP3 player. Each song is the same length.

Number of Songs	Length of Playlist (minutes)
4	16
9	36
16	64

How long, in minutes, is each song on the playlists?

Question 7

A circle is shown.



What is the circumference of the circle, to the nearest tenth of a centimeter?

Question 8

A bowling alley charges x dollars per guest and a fixed \$50 rental fee for parties.

Which equation represents the total cost, y , for 9 guests?

- Ⓐ $y = 9x$
- Ⓑ $y = 9x + 41$
- Ⓒ $y = 9x + 50$
- Ⓓ $y = 50x + 9$

Question 9

Tim is clearing brush from a large piece of land. The table shows how many acres he has cleared over time.

Brush Clearing

Acres Cleared	Days
$\frac{2}{3}$	2
$1\frac{2}{3}$	5
$2\frac{1}{3}$	7

How many days does it take Tim to clear 1 acre?



1	2	3	+	-	•	÷			
4	5	6	<	≤	=	≥	>		
7	8	9	$\frac{\square}{\square}$	\square^\square	()		$\sqrt{\square}$	$\sqrt[\square]{\square}$	π
0	.	-							

Question 10

Cary's barbecue sauce recipe calls for $2\frac{2}{3}$ cups of water for every 8 pints of tomato sauce.

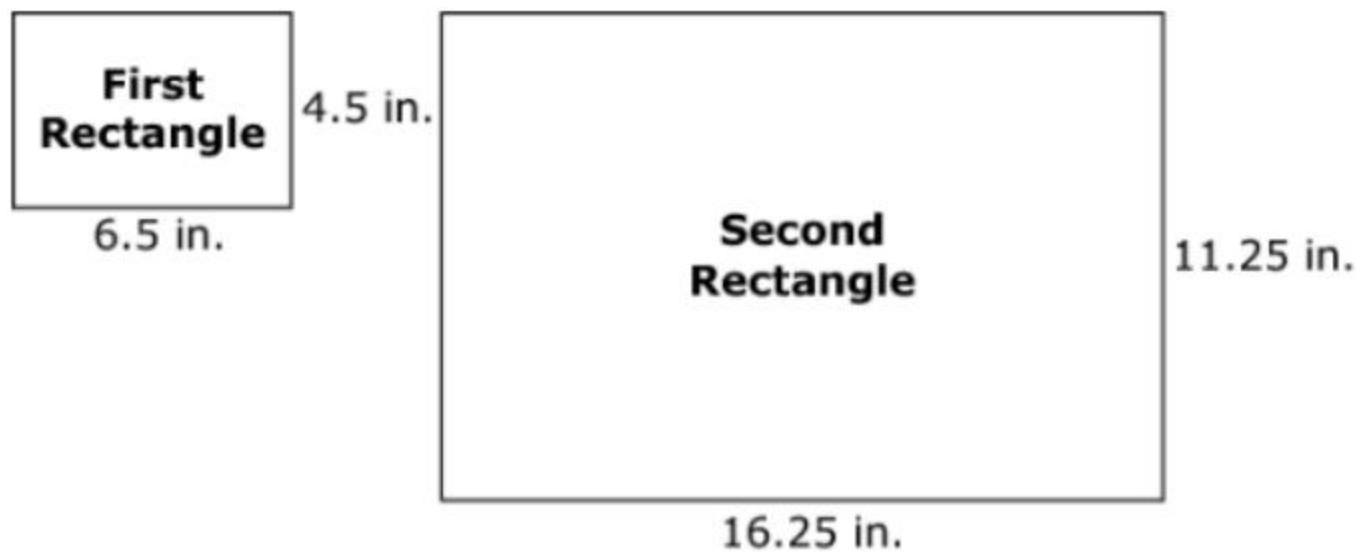
How many cups of water does Cary use when she makes barbecue sauce with 1 pint of tomato sauce?



1	2	3	+	-	•	÷			
4	5	6	<	≤	=	≥	>		
7	8	9	$\frac{\square}{\square}$	\square^\square	()		$\sqrt{\square}$	$\sqrt[\square]{\square}$	π
0	.	-							

Question 11

Angelo drew the two rectangles shown. The second is a scale drawing of the first.



What scale factor did Angelo use to draw the second rectangle?

Question 12

A dance studio offers ballet and hip-hop classes. The studio has 8 ballet classes for every 12 hip-hop classes.

How many hip-hop classes are there for each ballet class?

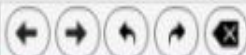


1	2	3
4	5	6
7	8	9
0	.	-

Question 13

One apple costs \$0.55 at the grocery store. Customers receive one free apple for every 8 apples that they buy. Anna paid a total of \$8.80 for her apples.

How many free apples did Anna receive?



1	2	3
4	5	6
7	8	9
0	.	-

Question 14

The circumference of a circle is 18.84 inches.

What is the diameter of the circle, to the nearest inch?



1	2	3
4	5	6
7	8	9
0	.	-

