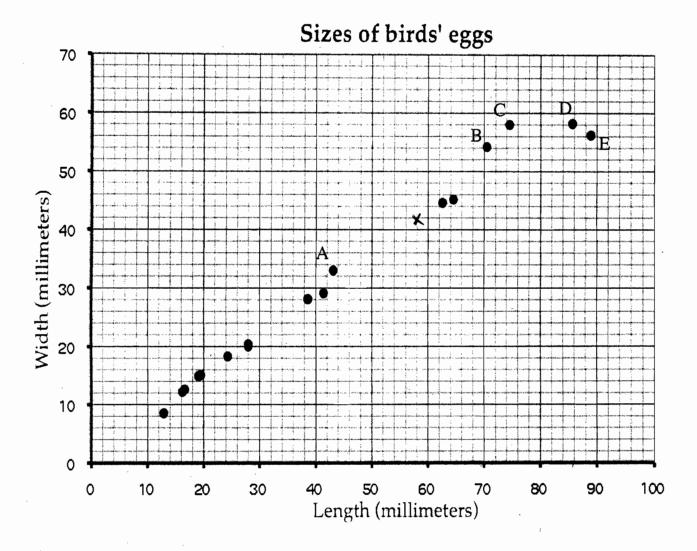
Birds' Eggs



This scatter diagram shows the lengths and the widths of the eggs of some American birds.



1. A biologist measured a sample of one hundred Mallard duck eggs and found they had an average length of 57.8 millimeters and average width 41.6 millimeters.

Use a X to mark a point that represents this on the scatter diagram.

2. What do widths?	es the	graph s	how abo	ut the c	connection	between	the leng	ths of birds'	eggs and	their
1	1.	,					1 .			

William Brown	_
	4
-	
-	•

As the length increases, the width generally increases.

3. Another sample of similar birds has eggs with a length of 35 millimeters on average. If these birds follow the trend in the scatterplot, about what width would you expect these eggs to be, on average?

about 24 millimeters

2

4. Describe the differences in shape of the two eggs C and D.

D would be longer than C by about 12 millimeters, they would be 2 the same width

5. Which of the eggs A, B, C, D, and E has the greatest ratio of length to width? Explain how you decided.

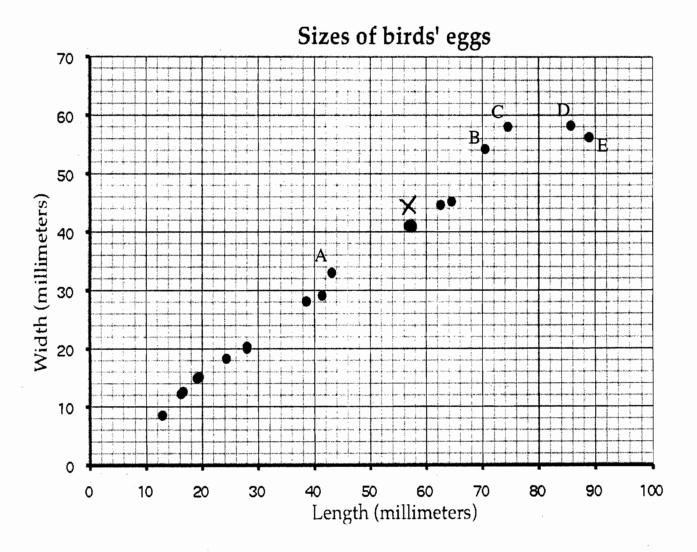
by the y coordinate and found the largest quotient was produced by egs E

A 43 to 33 1.3
B 71 to 55 1.29
C 74 to 58 1.27
D 86 to 58 1.48
E 89 to 56 1.58

2

Birds' Eggs T2

This scatter diagram shows the lengths and the widths of the eggs of some American birds.

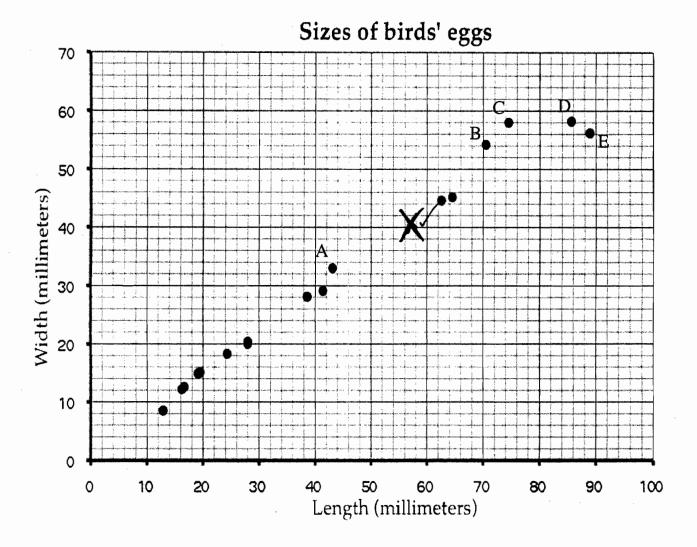


1. A biologist measured a sample of one hundred Mallard duck eggs and found they had an average length of 57.8 millimeters and average width 41.6 millimeters.

Use a \boldsymbol{X} to mark a point that represents this on the scatter diagram.

-	width					
The	length	h is about	2/3 #	leng	th:	(
			· .			
					-	
					limeters on average. n would you expect	
be, on ave		ic trend in the 5				mese eggs to
			about	23	millimeters	/ .
Describe	the differenc	es in shape of th	he two eggs C and	d D.		
Describe			he two eggs C and			
·	They	have the	Same widt		different 1	engths, so
·	They	have the	Same widt		different 1	engths, so
·	They	have the			different 1	engths, so
·	They	have the	Same widt		different 1	engths, so
·,	They	have the	Same widt		different 1	engths, so
the	They Shape d	have the D is longe	Same widt or than C.	th, but		engths, so
the Which of	They Shape d	have the D is longe	Same widt	th, but		engths, so
Which of Explain h	They Shape d The eggs A, I now you decid	have the D is longer	Same width	th but	gth to width?	2
Which of Explain h	They Shape d the eggs A, l ow you decid	B, C, D, and Elded.	Same width or than C. than C. thas the greatest ra	atio of leng	gth to width?	io. Dha
Which of Explain h	They Shape d the eggs A, l ow you decid	B, C, D, and Elded.	Same width or than C. than C. thas the greatest ra	atio of leng	gth to width?	io. Drkzs

This scatter diagram shows the lengths and the widths of the eggs of some American birds.

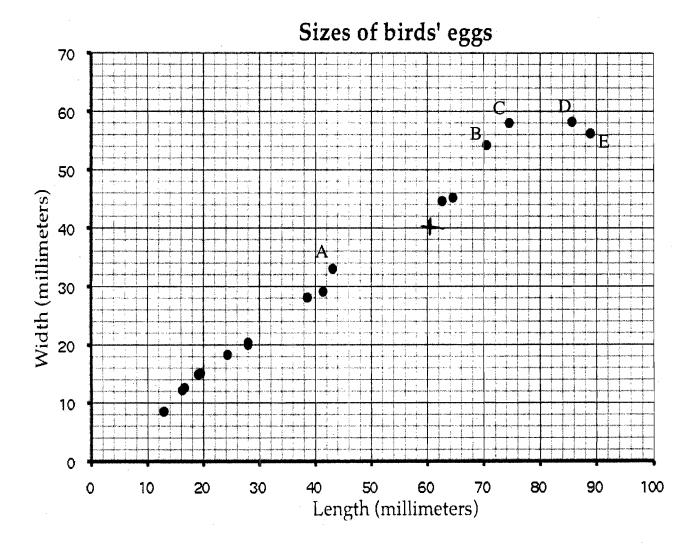


1. A biologist measured a sample of one hundred Mallard duck eggs and found they had an average length of 57.8 millimeters and average width 41.6 millimeters.

Use a X to mark a point that represents this on the scatter diagram.

2. What does the graph show about the connection between the lengths of birds' eggs and their widths?
The length generally Increases along with the
width.
<u> </u>
3. Another sample of similar birds has eggs with a length of 35 millimeters on average. If these birds follow the trend in the scatterplot, about what width would you expect these eggs to be, on average?
Around 23-26 / 2
4. Describe the differences in shape of the two eggs C and D.
The hength of Ch D are the sure, but because
that the midther pilled by lay Dis Inamee
ablong/oval shaper than C. /
5. Which of the eggs A, B, C, D, and E has the greatest ratio of length to width?
Explain how you decided.
The egg & has the greatest length to wilth
ratio according to data below. I tourd the approxi 1 fw
ratio.
43',33
371:154 1.315/
14.58 1-27
D. 16:58 1.48
5 89', 56 CCR 5
Copyright © 2011 by Mathematics Assessment Resource Service. All rights reserved.

This scatter diagram shows the lengths and the widths of the eggs of some American birds.



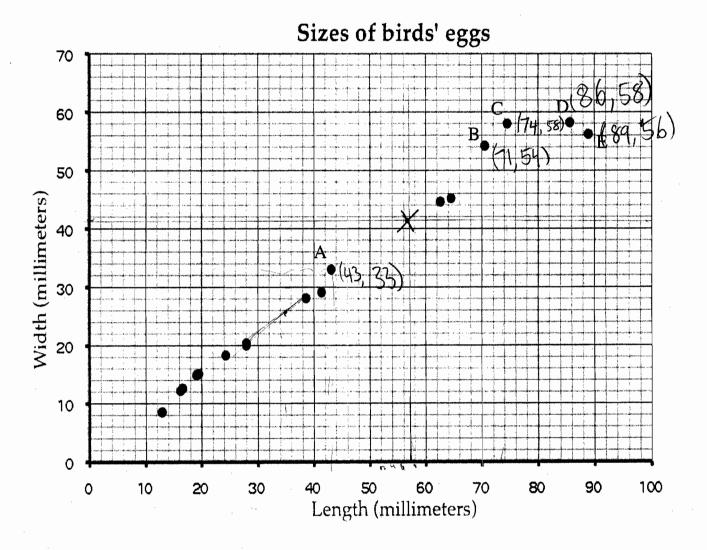
1. A biologist measured a sample of one hundred Mallard duck eggs and found they had an average length of 57.8 millimeters and average width 41.6 millimeters.

Use a \mathbf{X} to mark a point that represents this on the scatter diagram.

0

2. What does the graph show about the connection between the lengths of birds' eggs and their widths?
As their length increases, the width increases too. Huever
when the egg has reached at least 72 millimeters for length,
the will stay the same as the length of the egy keeps
3. Another sample of similar birds has eggs with a length of 35 millimeters on average. If these birds follow the trend in the scatterplot, about what width would you expect these eggs to be, on average?
25.8 millimeters or \$26 millimeters
4. Describe the differences in shape of the two eggs C and D.
Even though the widths of the two eggs are the same,
their lengths are not. Egg D's length is 12 millimeters 2
larger than egg C.
5. Which of the eggs A, B, C, D, and E has the greatest ratio of length to width? Explain how you decided.
A=43:33, B=54:70, C=74:58 D=86:56, E=88:58
Egg E has the greatest ratio of length to width. I decide
to use division and when I divided to got the ratio of the eggs
Egg E had the greatest ratio. /bod 2

This scatter diagram shows the lengths and the widths of the eggs of some American birds.



1. A biologist measured a sample of one hundred Mallard duck eggs and found they had an average length of 57.8 millimeters and average width 41.6 millimeters.

Use a \boldsymbol{X} to mark a point that represents this on the scatter diagram.

2. What does the graph show about the connection between the lengths of birds' eggs and their widths?



when the lengths increase, the widths do too when the egg reaches atleast 72 millimeters for length the width will stay the same as the length teeps growing.

3. Another sample of similar birds has eggs with a length of 35 millimeters on average. If these birds follow the trend in the scatterplot, about what width would you expect these eggs to be, on average?

25.8 millimeters

2

4. Describe the differences in shape of the two eggs C and D.

Even though the widths are the same, the lengths are not Egg b is 12 millimeters larger (length) than egg C

5. Which of the eggs A, B, C, D, and E has the greatest ratio of length to width? Explain how you decided.

A= 43 to 33 B= 54 to 70 C=74 to 58 D= 86 to 58 E = 88 to 58, EggE has the greatest rottio because when I divided the numbers egg E has the most ratio.

A:

(length divided by width