



# New Maths GCSE: N8 - Fractions of Shapes

Name:.....

Date:.....

What fraction of the pie chart represents green?

A)  $\frac{1}{3}$                       B)  $\frac{1}{4}$   
C)  $\frac{1}{5}$                       D)  $\frac{1}{6}$

Correct Answer: A B C D

Explanation:

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What fraction of this shape is shaded?

A)  $\frac{6}{8}$                       B) 6  
C)  $\frac{1}{4}$                       D)  $\frac{6}{2}$

Correct Answer: A B C D

Explanation:

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You are told to shade in 75% of this shape. How many boxes do you shade in?

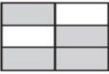
A) 7.5                      B) 12  
C) 14                      D) 15

Correct Answer: A B C D

Explanation:

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Use the model below to answer the question.



What fraction of the model is shaded?

A.  $\frac{2}{4}$   
 B.  $\frac{4}{6}$   
 C.  $\frac{4}{2}$   
 D.  $\frac{6}{4}$

Correct Answer: A B C D

Explanation:

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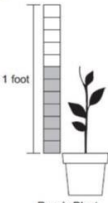
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In science class, Rose kept track of the height of her plant. The height of her plant after 3 weeks is shown in the picture below.



What fraction of a foot is the height of Rose's plant?

A.  $\frac{5}{7}$   
 B.  $\frac{7}{5}$   
 C.  $\frac{5}{12}$   
 D.  $\frac{7}{12}$

Correct Answer: A B C D

Explanation:

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## Fractions


A fraction model is shown.





Which shows an equivalent fraction?

A. 

B. 

C. 

D. 



Correct Answer: A B C D

Explanation:

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The figure shown is made up of identical triangles:

What fraction of the figure is shaded?

A.  $\frac{5}{16}$   
 B.  $\frac{5}{11}$   
 C.  $\frac{11}{16}$   
 D.  $\frac{11}{5}$



Correct Answer: A B C D

Explanation:

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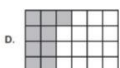
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Ed has climbed 9 flights of stairs. He needs to climb a total of 15 flights of stairs. The shaded region of which figure models the number of flights of stairs Ed has climbed out of the total number he needs to climb?

A. 

B. 

C. 

D. 

Correct Answer: A B C D

Explanation:

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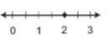
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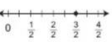
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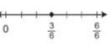
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Which model and number line show the same fraction?

A.  

B.  

C.  

D.  

Correct Answer: A B C D

Explanation:

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Use the models below to answer the question.

Which statement about the models is true?

A. Each shows the same fraction because they are the same size.

B. Each shows a different fraction because they are different shapes.

C. Each shows the same fraction because they both have 3 sections shaded.

D. Each shows a different fraction because they both have 3 shaded sections but a different number of total sections.

Correct Answer: A B C D

Explanation:

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