

Find $\frac{1}{4}$ of a Set (13.B.1)

Date: _____

Q.1) Which of the following shows that $\frac{1}{4}$ of the balls are grey in colour?
Tick (✓) the correct box.

the grey balls are $\frac{3}{4}$

<p>(a)</p> <div style="border: 1px solid black; width: 50px; height: 20px; margin-left: auto;"></div>	<p>(b)</p> <div style="border: 1px solid black; width: 50px; height: 20px; margin-left: auto;"></div>
<p>(c)</p> <div style="border: 1px solid black; width: 50px; height: 20px; margin-left: auto;"></div>	<p>(d)</p> <div style="border: 1px solid black; width: 50px; height: 20px; margin-left: auto; text-align: center;">✓</div>

the grey balls are $\frac{3}{6}$

grey
 white
 the grey balls are 1 group out of 2

grey

 white
 white
 the grey balls are 1 group out of 3

grey
 white
 white
 white

the grey balls are 1 group out of 4 so a quarter

Q.2) Farhan baked 12 cookies.

$\frac{1}{4}$ of them are chocolate chip cookies.

5 are peanut cookies.

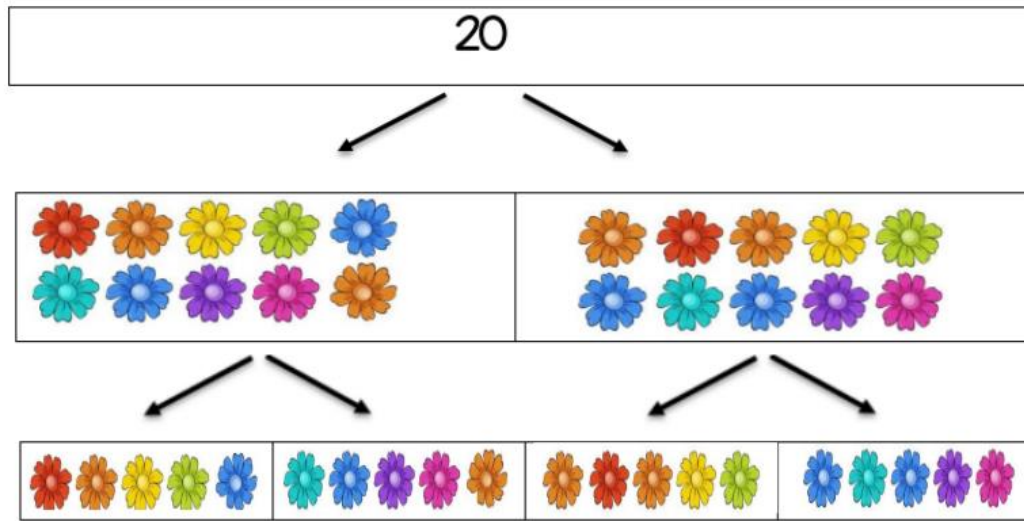
The rest are strawberry jam cookies.

How many strawberry jam cookies did he bake? 4

Show how you find your answer.



Q.3) Complete the bar model.



$\frac{1}{2}$ of 20 is 10.

$\frac{1}{4}$ of 20 is 5.

Q.4) Scott is finding one quarter of 28 JOD.

group them in groups of 4



One quarter of 28 JOD is 9 JOD
because half of 28 is 18 and half of 18 is 9

or find half of
the half

Is he correct? Explain why.

He is incorrect because half of 28 is 14 and half of 14 is 7.

One quarter of 28 JOD is 7 JOD.