Discussion Problems Step 1: Equivalent Fractions

National Curriculum Objectives:

Mathematics Year 5: (5F2b) <u>Identify</u>, <u>name and write equivalent fractions of a given</u> <u>fraction</u>, <u>represented visually</u>, <u>including tenths and hundredths</u>

About this resource:

This resource has been designed for pupils who understand the concepts within <u>this step</u>. It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More <u>Year 5 Fractions</u> resources.

Did you like this resource? Don't forget to <u>review</u> it on our website.



Equivalent Fractions

1. Arrange the loop cards so that each fraction is matched to an equivalent fraction. Complete the incomplete fractions and fill in the blank card to finish the loop.



2. Clare and Barney need to find an exit route for the maze below. They can travel up, down, left, right and diagonally to equivalent fractions. Barney must start and end on a shaded square. Clare must start and end on a white square.

Barney	Barney start?	> <u>36</u> 54	<u>5</u> 9	<u>4</u> 6	<u>16</u> 24	24 36 Exit?
	Clare start?	> <u>20</u> <u>30</u>	<u>32</u> 48	<u>12</u> 18	<u>28</u> 42	24 56
Clare	Barney start?	> 5/8	<u>9</u> 21	<u>18</u> 42	<u>20</u> 28	12 28 Exit?
	Clare start?	$> \frac{3}{7}$	<u>6</u> 15	<u>6</u> 14	<u>15</u> 35	27 63

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DP



Discussion Problems – Equivalent Fractions – Year 5

Equivalent Fractions

1. Arrange the loop cards so that each fraction is matched to an equivalent fraction. Complete the incomplete fractions and fill in the blank card to finish the loop. Various answers, for example:



2. Clare and Barney need to find an exit route for the maze below. They can travel up, down, left, right and diagonally to equivalent fractions. Barney must start and end on a shaded square. Clare must start and end on a white square.

Various answers, for example:



Barney's route



Clare's route

DP

<u>36</u> 54	<u>5</u> 9	<u>4</u> 6	<u>16</u> 24	<u>24</u> 36	<u>36</u> 54	<u>5</u> 9	4 6	<u>16</u> 24	<u>20</u> 28
<u>20</u>	<u>32</u>	<u>12</u>	<u>28</u>	<u>24</u>	<u>20</u>	<u>32</u>	<u>12</u>	<u>28</u>	<u>24</u>
30	48	18	42	56	30	48	18	42	56
<u>5</u>	<u>9</u>	<u>18</u>	<u>20</u>	<u>12</u>	<u>5</u>	<u>9</u>	<u>18</u>	<u>12</u>	<u>20</u>
8	21	42	28	28	8	21	42	28	28
<u>3</u>	<u>6</u>	<u>9</u>	<u>15</u>	<u>27</u>	<u>3</u>	<u>6</u>	<u>6</u>	<u>15</u>	<u>27</u>
7	15	21	35	63	7	15	14	35	63

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Discussion Problems – Equivalent Fractions ANSWERS