

Denominator Multiples Board Game

To add three fractions with denominators that are multiples of the same number.



How to Play:

- Each player can choose a different space to start from and place their counter on it.
- Roll a dice and move clockwise that number of spaces.
- Complete the fractions addition on the space you land on. Show your working out on your sheet.
- If the other players think you are correct, colour and claim that space.
- If you land on a square which has already been claimed, miss your go.
- The winner is the player who claims the final space.

a) $\frac{1}{2} + \frac{1}{4} + \frac{1}{12}$	b) $\frac{1}{2} + \frac{1}{3} + \frac{1}{12}$	c) $\frac{1}{3} + \frac{1}{6} + \frac{3}{12}$	d) $\frac{1}{3} + \frac{1}{6} + \frac{1}{12}$	e) $\frac{1}{5} + \frac{3}{10} + \frac{7}{20}$
p) $\frac{3}{7} + \frac{5}{14} + \frac{5}{28}$				f) $\frac{1}{16} + \frac{5}{32} + \frac{3}{8}$
o) $\frac{3}{10} + \frac{1}{5} + \frac{6}{40}$				g) $\frac{1}{4} + \frac{5}{24} + \frac{5}{12}$
n) $\frac{3}{12} + \frac{5}{24} + \frac{1}{8}$				h) $\frac{3}{16} + \frac{1}{2} + \frac{1}{4}$
m) $\frac{1}{4} + \frac{1}{8} + \frac{5}{16}$	l) $\frac{1}{4} + \frac{2}{8} + \frac{5}{16}$	k) $\frac{2}{9} + \frac{5}{18} + \frac{1}{3}$	j) $\frac{1}{5} + \frac{8}{35} + \frac{2}{7}$	i) $\frac{1}{2} + \frac{5}{18} + \frac{1}{9}$

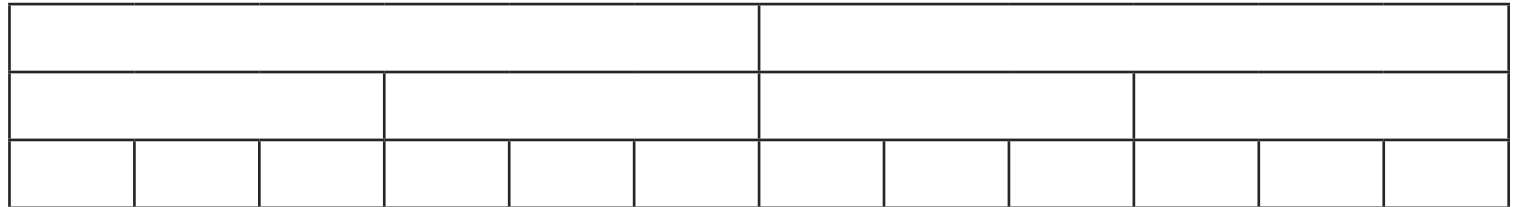
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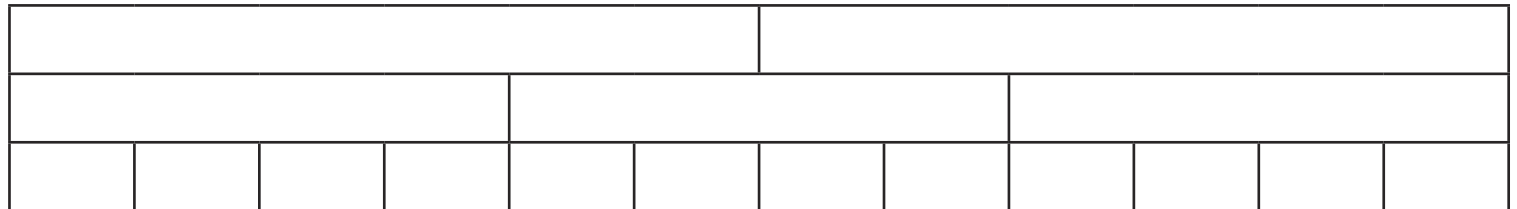


As you play the game, use the bar models to help you complete the additions.

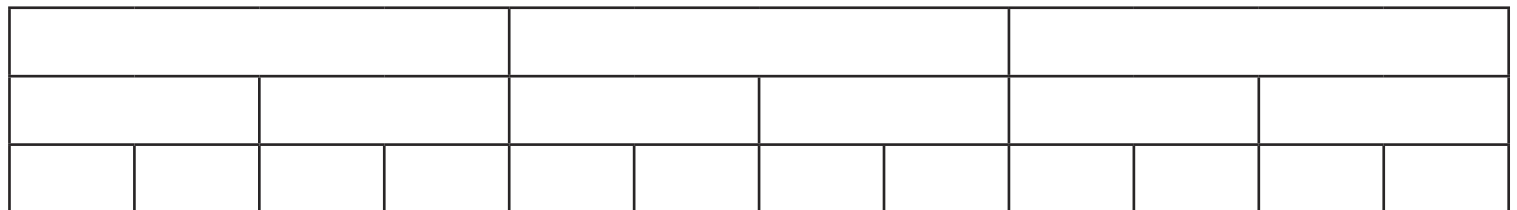
a) $\frac{1}{2} + \frac{1}{4} + \frac{1}{12} = \frac{\square}{12} + \frac{\square}{12} + \frac{\square}{12} = \frac{\square}{12}$



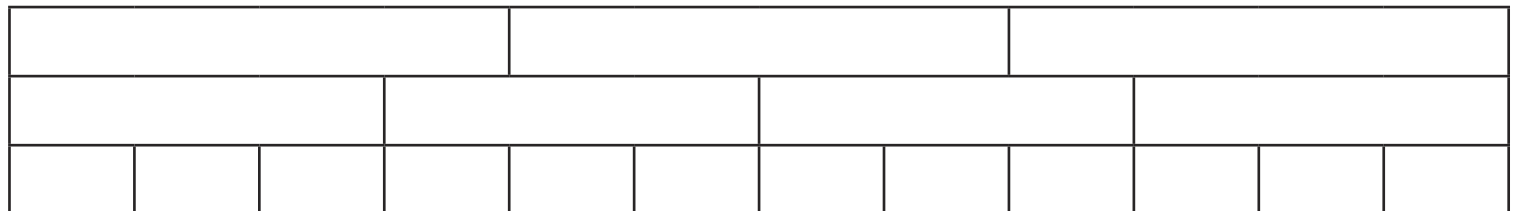
b) $\frac{1}{2} + \frac{1}{3} + \frac{1}{12} = \frac{\square}{12} + \frac{\square}{12} + \frac{\square}{12} = \frac{\square}{12}$



c) $\frac{1}{3} + \frac{1}{6} + \frac{3}{12} = \frac{\square}{12} + \frac{\square}{12} + \frac{\square}{12} = \frac{\square}{12}$



d) $\frac{1}{3} + \frac{1}{4} + \frac{1}{12} = \frac{\square}{12} + \frac{\square}{12} + \frac{\square}{12} = \frac{\square}{12}$



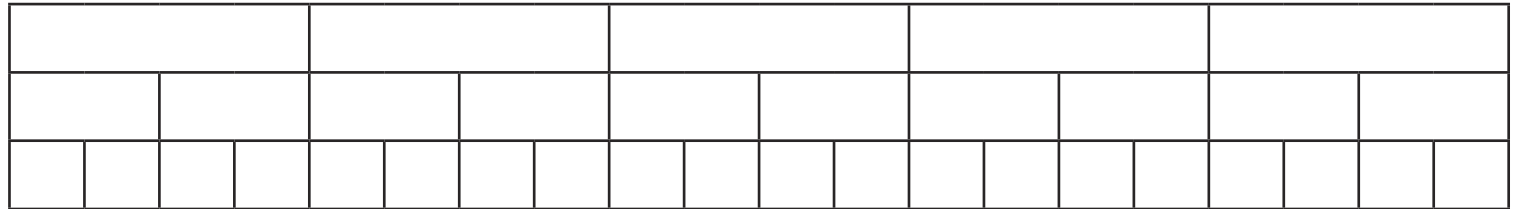
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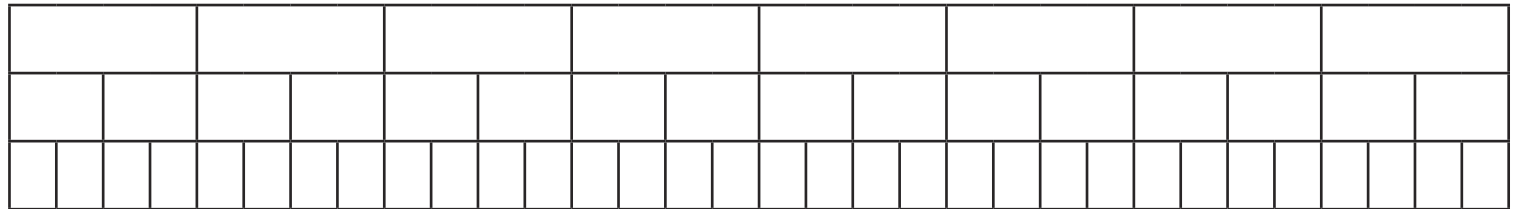


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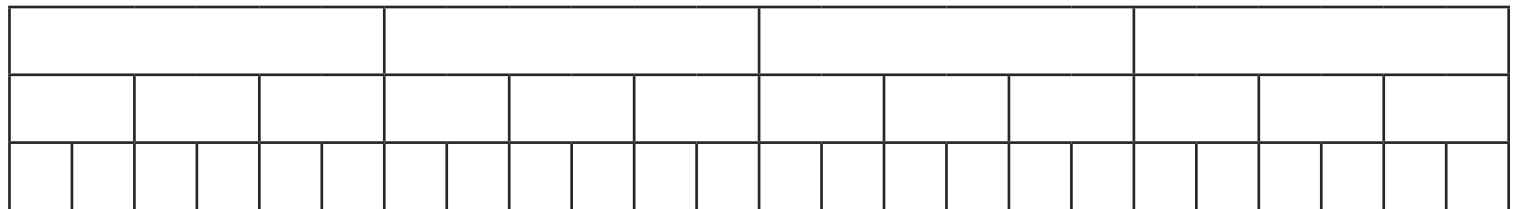
e) $\frac{1}{5} + \frac{3}{10} + \frac{7}{20} = \frac{\square}{20} + \frac{\square}{20} + \frac{\square}{20} = \frac{\square}{20}$



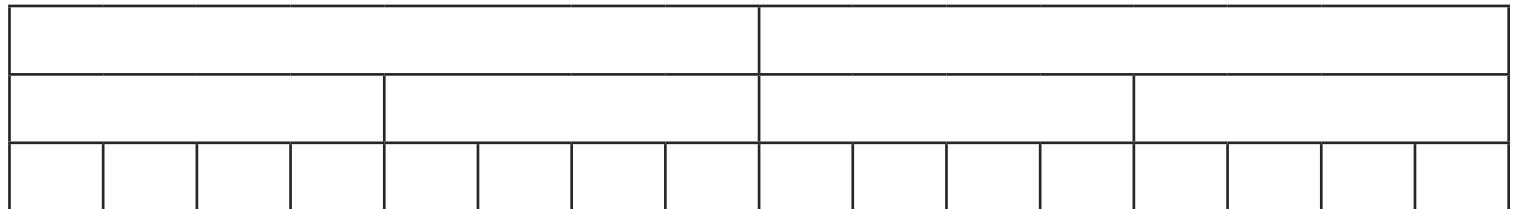
f) $\frac{1}{16} + \frac{5}{32} + \frac{3}{8} = \frac{\square}{32} + \frac{\square}{32} + \frac{\square}{32} = \frac{\square}{32}$



g) $\frac{1}{4} + \frac{5}{24} + \frac{5}{12} = \frac{\square}{24} + \frac{\square}{24} + \frac{\square}{24} = \frac{\square}{24}$



h) $\frac{3}{16} + \frac{1}{2} + \frac{1}{4} = \frac{\square}{16} + \frac{\square}{16} + \frac{\square}{16} = \frac{\square}{16}$



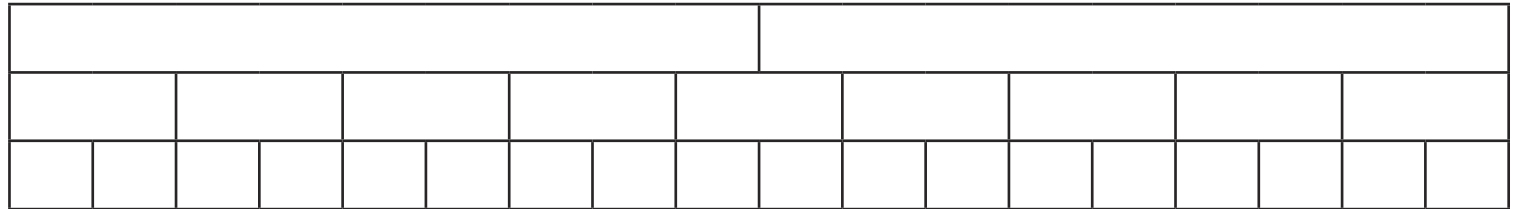
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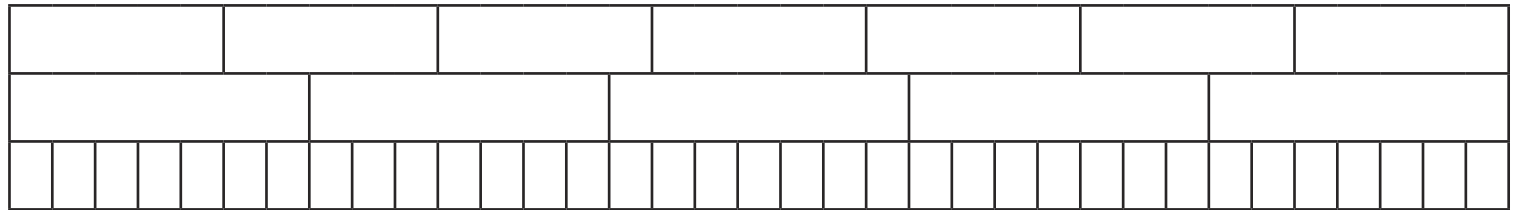


As you play the game, use the bar models to help you complete the additions.

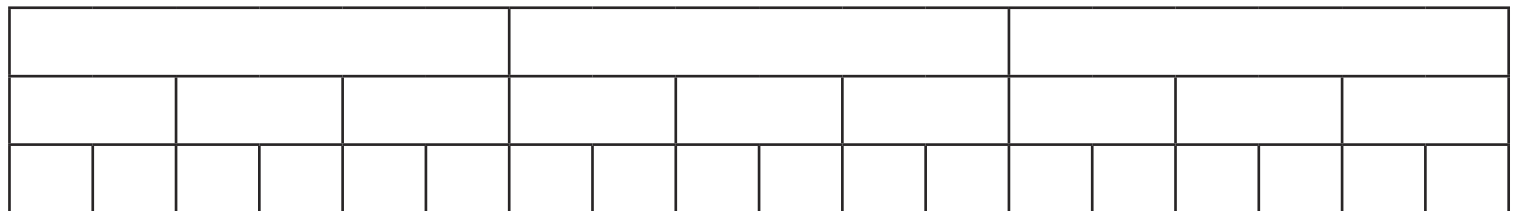
$$i) \frac{1}{2} + \frac{5}{18} + \frac{1}{9} = \frac{\square}{18} + \frac{\square}{18} + \frac{\square}{18} = \frac{\square}{18}$$



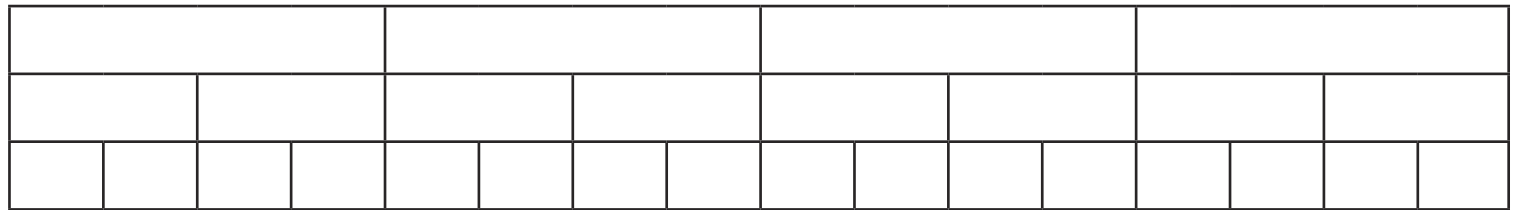
$$j) \frac{1}{5} + \frac{8}{35} + \frac{2}{7} = \frac{\square}{35} + \frac{\square}{35} + \frac{\square}{35} = \frac{\square}{35}$$



$$k) \frac{2}{9} + \frac{5}{18} + \frac{1}{3} = \frac{\square}{18} + \frac{\square}{18} + \frac{\square}{18} = \frac{\square}{18}$$



$$l) \frac{1}{4} + \frac{2}{8} + \frac{5}{16} = \frac{\square}{16} + \frac{\square}{16} + \frac{\square}{16} = \frac{\square}{16}$$

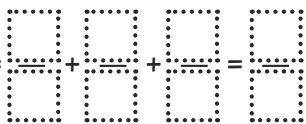


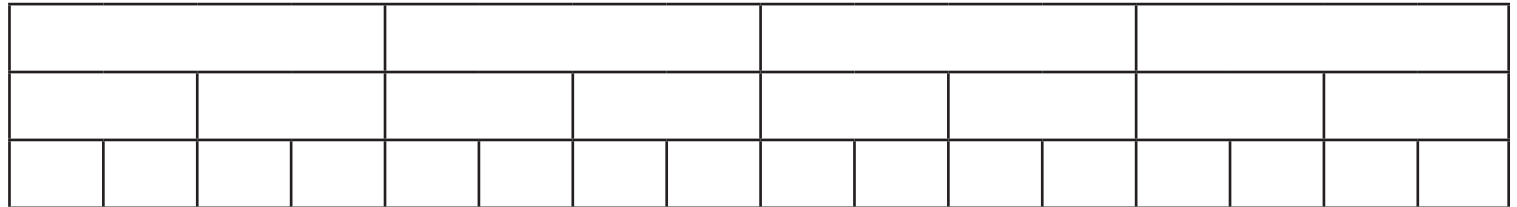
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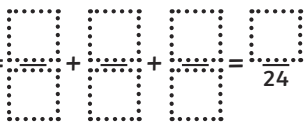
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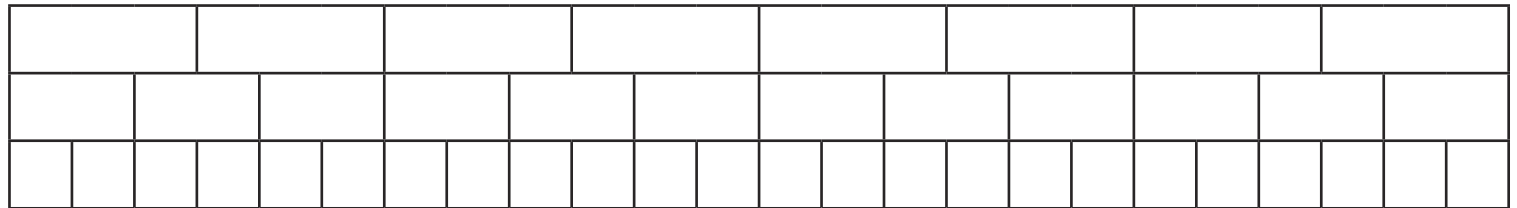


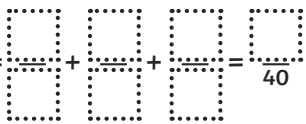
As you play the game, use the bar models to help you complete the additions.

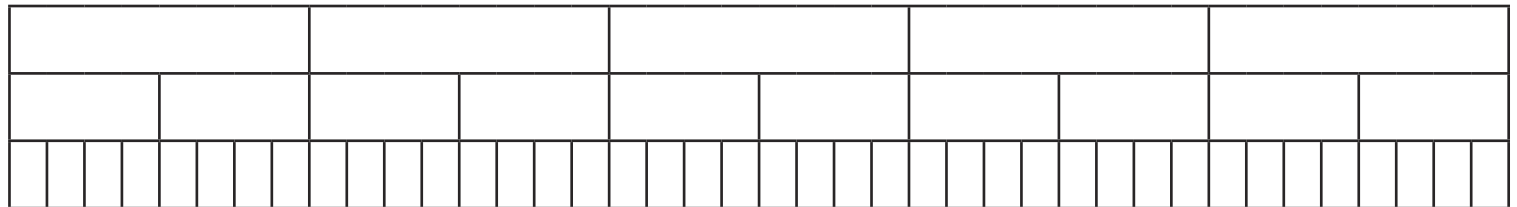
m) $\frac{1}{4} + \frac{1}{8} + \frac{5}{16} =$ 

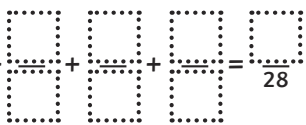


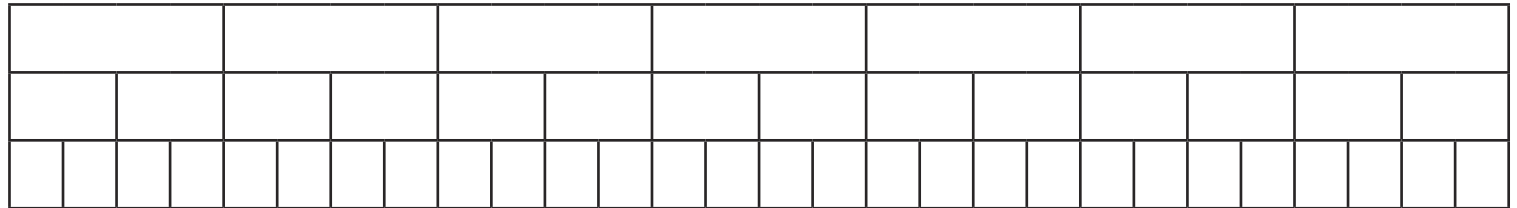
n) $\frac{3}{12} + \frac{5}{24} + \frac{1}{8} =$ 



o) $\frac{3}{10} + \frac{1}{5} + \frac{6}{40} =$ 



p) $\frac{3}{7} + \frac{5}{14} + \frac{5}{28} =$ 



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Record your answers as you play the game.

Question	Answer	Working out											
a) $\frac{1}{2} + \frac{1}{4} + \frac{1}{12}$													
b) $\frac{1}{2} + \frac{1}{3} + \frac{1}{12}$													
c) $\frac{1}{3} + \frac{1}{6} + \frac{3}{12}$													
d) $\frac{1}{3} + \frac{1}{4} + \frac{1}{12}$													
e) $\frac{1}{5} + \frac{3}{10} + \frac{7}{20}$													
f) $\frac{1}{16} + \frac{5}{32} + \frac{3}{8}$													
g) $\frac{1}{4} + \frac{5}{24} + \frac{5}{12}$													
h) $\frac{3}{16} + \frac{1}{2} + \frac{1}{4}$													
i) $\frac{1}{2} + \frac{5}{18} + \frac{1}{9}$													
j) $\frac{1}{5} + \frac{8}{35} + \frac{2}{7}$													
k) $\frac{2}{9} + \frac{5}{18} + \frac{1}{3}$													
l) $\frac{1}{4} + \frac{2}{8} + \frac{5}{16}$													
m) $\frac{1}{4} + \frac{1}{8} + \frac{5}{16}$													
n) $\frac{3}{12} + \frac{5}{24} + \frac{1}{8}$													
o) $\frac{3}{10} + \frac{1}{5} + \frac{6}{40}$													
p) $\frac{3}{7} + \frac{5}{14} + \frac{5}{28}$													

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Question	Answer	Working out
a) $\frac{1}{2} + \frac{1}{4} + \frac{1}{12}$		
b) $\frac{1}{2} + \frac{1}{3} + \frac{1}{12}$		
c) $\frac{1}{3} + \frac{1}{6} + \frac{3}{12}$		
d) $\frac{1}{3} + \frac{1}{4} + \frac{1}{12}$		
e) $\frac{1}{5} + \frac{3}{10} + \frac{7}{20}$		
f) $\frac{1}{16} + \frac{5}{32} + \frac{3}{8}$		
g) $\frac{1}{4} + \frac{5}{24} + \frac{5}{12}$		
h) $\frac{3}{16} + \frac{1}{2} + \frac{1}{4}$		
i) $\frac{1}{2} + \frac{5}{18} + \frac{1}{9}$		
j) $\frac{1}{5} + \frac{8}{35} + \frac{2}{7}$		
k) $\frac{2}{9} + \frac{5}{18} + \frac{1}{3}$		
l) $\frac{1}{4} + \frac{2}{8} + \frac{5}{16}$		
m) $\frac{1}{4} + \frac{1}{8} + \frac{5}{16}$		
n) $\frac{3}{12} + \frac{5}{24} + \frac{1}{8}$		
o) $\frac{3}{10} + \frac{1}{5} + \frac{6}{40}$		
p) $\frac{3}{7} + \frac{5}{14} + \frac{5}{28}$		

Denominator Multiples Board Game Answers

Question	Answer
a) $\frac{1}{2} + \frac{1}{4} + \frac{1}{12}$	$\frac{6}{12} + \frac{3}{12} + \frac{1}{12} = \frac{10}{12}$
b) $\frac{1}{2} + \frac{1}{3} + \frac{1}{12}$	$\frac{6}{12} + \frac{4}{12} + \frac{1}{12} = \frac{11}{12}$
c) $\frac{1}{3} + \frac{1}{6} + \frac{3}{12}$	$\frac{4}{12} + \frac{2}{12} + \frac{3}{12} = \frac{9}{12}$
d) $\frac{1}{3} + \frac{1}{4} + \frac{1}{12}$	$\frac{4}{12} + \frac{3}{12} + \frac{1}{12} = \frac{8}{12}$
e) $\frac{1}{5} + \frac{3}{10} + \frac{7}{20}$	$\frac{4}{20} + \frac{6}{20} + \frac{7}{20} = \frac{17}{20}$
f) $\frac{1}{16} + \frac{5}{32} + \frac{3}{8}$	$\frac{2}{32} + \frac{5}{32} + \frac{12}{32} = \frac{19}{32}$
g) $\frac{1}{4} + \frac{5}{24} + \frac{5}{12}$	$\frac{6}{24} + \frac{5}{24} + \frac{10}{24} = \frac{21}{24}$
h) $\frac{3}{16} + \frac{1}{2} + \frac{1}{4}$	$\frac{3}{16} + \frac{8}{16} + \frac{4}{16} = \frac{15}{16}$

Question	Answer
i) $\frac{1}{2} + \frac{5}{18} + \frac{1}{9}$	$\frac{9}{18} + \frac{5}{18} + \frac{2}{18} = \frac{16}{18}$
j) $\frac{1}{5} + \frac{8}{35} + \frac{2}{7}$	$\frac{7}{35} + \frac{8}{35} + \frac{10}{35} = \frac{25}{35}$
k) $\frac{2}{9} + \frac{5}{18} + \frac{1}{3}$	$\frac{4}{18} + \frac{5}{18} + \frac{6}{18} = \frac{15}{18}$
l) $\frac{1}{4} + \frac{2}{8} + \frac{5}{16}$	$\frac{4}{16} + \frac{4}{16} + \frac{5}{16} = \frac{13}{16}$
m) $\frac{1}{4} + \frac{1}{8} + \frac{5}{16}$	$\frac{4}{16} + \frac{2}{16} + \frac{5}{16} = \frac{11}{16}$
n) $\frac{3}{12} + \frac{5}{24} + \frac{1}{8}$	$\frac{6}{24} + \frac{5}{24} + \frac{3}{24} = \frac{14}{24}$
o) $\frac{3}{10} + \frac{1}{5} + \frac{6}{40}$	$\frac{12}{40} + \frac{8}{40} + \frac{6}{40} = \frac{26}{40}$
p) $\frac{3}{7} + \frac{5}{14} + \frac{5}{28}$	$\frac{12}{28} + \frac{10}{28} + \frac{5}{28} = \frac{27}{28}$