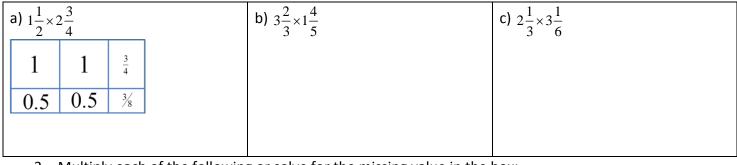
## Math 8 HW Section 2.3 Multiplying Mixed Fractions

1. Convert each of the following to improper fractions

| a) $2\frac{1}{4}$   | b) $3\frac{3}{5}$   | c) $6\frac{5}{7}$  | d) $-3\frac{1}{6}$ | e) $4\frac{7}{8}$  | f) $7\frac{3}{5}$                  |
|---------------------|---------------------|--------------------|--------------------|--------------------|------------------------------------|
| g) $-4\frac{3}{11}$ | h) $-3\frac{6}{13}$ | i) $3\frac{2}{20}$ | j) 3 8/16          | k) $3\frac{8}{12}$ | L) -3 <sup>4</sup> / <sub>15</sub> |

2. Draw a model to determine each product:



3. Multiply each of the following or solve for the missing value in the box:

| a) $1\frac{2}{3} \times 2\frac{1}{10}$         | b) $3\frac{2}{3} \times 2\frac{1}{22}$ | c) $1\frac{2}{5} \times 3\frac{3}{4}$                      | d) $2\frac{4}{7} \times 2\frac{4}{15}$                    |
|--|--|--|---|
|  |  |  |   |
| e) $3\frac{3}{6} \times 3\frac{3}{14}$         | f) $5\frac{1}{4} \times 7\frac{1}{3}$  | g) $2\frac{3}{4} \times 1\frac{1}{3} \times 3\frac{1}{11}$ | h) $4\frac{2}{5} \times 5\frac{1}{3} \times 3\frac{1}{8}$ |
| 6 14   | 4 3                                    | 4 3 11   | 5 3 8   |
|  |  |  |   |
| i) $1\frac{2}{3} \times \square = \frac{3}{4}$ | $ j) 8\frac{2}{3} \times \square = 39$ | $k) \ 3\frac{3}{4} \times  = 3\frac{1}{2}$                 | $1) \ 2\frac{1}{3} \times  = 4\frac{6}{7}$                |
|  |  |  |   |
|  |  |  |   |

- 4. A plant grew  $1\frac{1}{8}$  of an inch every day. How many inches will it grow in  $10\frac{1}{2}$  days?
- 5. David ran  $2\frac{1}{3}$  laps around a track in 1 hour. How many laps can he run in 3.75h if he maintained the same speed?
- 6. Mark makes  $$20\frac{3}{4}$ an hour at his job. He works <math>8\frac{1}{3}$  hours every day. If Mark can only save  $\frac{3}{4}$  of the money he makes, how many days will he need to save \$2000?
- 7. Jason needs  $2\frac{1}{2}$  tanks of gas to drive from Vancouver to Portland. Each tank of gas will cost him  $\$\frac{98}{3}$ . How much will it cost him to drive from Vancouver to Portland?
- 8. The length of a box is increased by  $1\frac{2}{3}$  times its original length and the width is increased by  $2\frac{1}{5}$  times its original width. If the original area of the box is  $300\text{m}^2$ , then what is the area of the new box?
- 9. Challenge: Sharon has some money in her pocket. Her friend Wendy has  $1\frac{1}{2}$  times as much as Sharon. Another friend Chelsea has  $1\frac{2}{3}$  times as much money as Wendy. Altogether they have \$200. How much money does Sharon have?