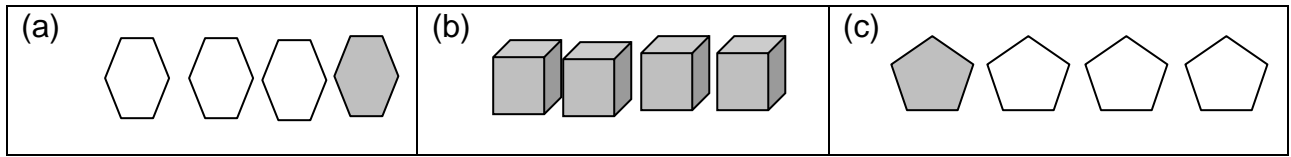


# Worksheet 2015-4EI-00002

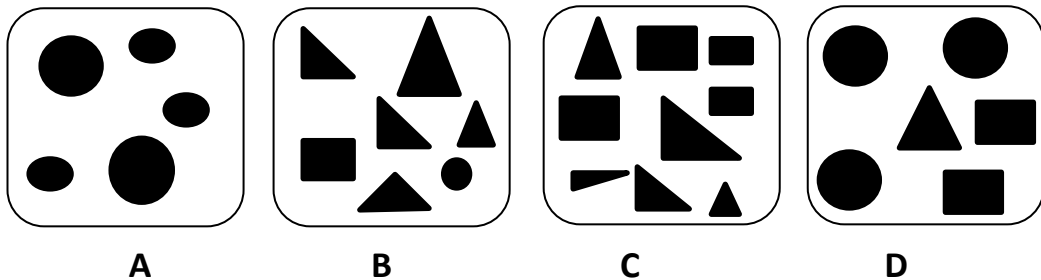
## FRACTIONS

(1) Complete the table.



	Fraction shaded	Fraction not shaded
(a)	$\frac{1}{4}$	$\frac{3}{4}$
(b)	$\frac{3}{4}$	$\frac{0}{4}$
(c)	$\frac{1}{4}$	$\frac{3}{4}$

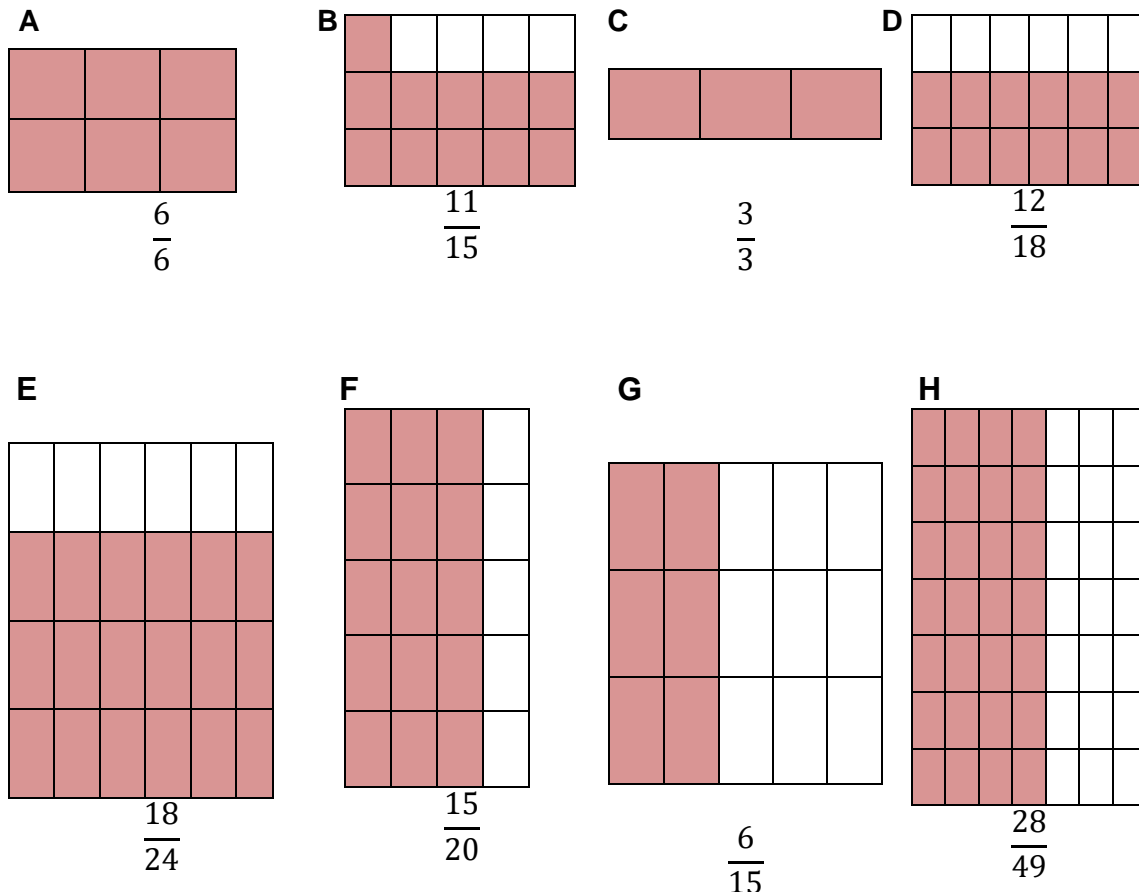
(2) Answer the questions



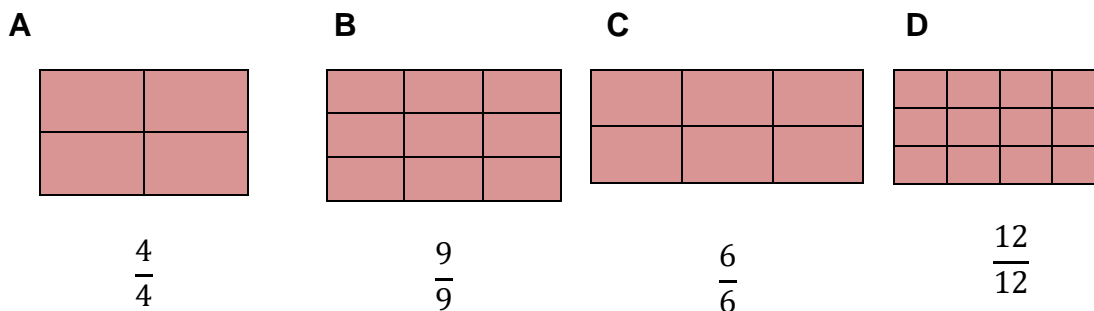
- a) How many shapes are in block A?
- b) What fraction in block A has a round shape?
- c) How many shapes are in block B?
- d) What fraction in block B is triangles?
- e) What fraction in block C is quadrilaterals?
- f) What fraction in block D is not circles?

- 5
- $\frac{5}{5}$
- 7
- $\frac{5}{7}$
- $\frac{4}{9}$
- $\frac{3}{6}$

**(3) Colour the given fractions**



**(4) Colour the given fractions**



**Answer the questions.**

- (a) How many blocks in A are shaded? **4** therefore  $\frac{4}{4}$  equals one whole
- (b) How many blocks in B are shaded? **9** therefore  $\frac{9}{9}$  equals one whole
- (c) How many blocks in C are shaded? **6** therefore  $\frac{12}{6}$  equals two wholes
- (d) How many blocks in D are shaded? **12** therefore  $\frac{36}{12}$  equals three wholes

**(5) How many wholes are there?**

- |     |                 |    |   |   |        |     |                |    |   |   |        |
|-----|-----------------|----|---|---|--------|-----|----------------|----|---|---|--------|
| (a) | $\frac{4}{4}$   | is | <table border="1"><tr><td>1</td></tr></table> | 1 | wholes | (f) | $\frac{4}{2}$  | is | <table border="1"><tr><td>2</td></tr></table> | 2 | wholes |
| 1   |                 |    |   |   |        |     |                |    |   |   |        |
| 2   |                 |    |   |   |        |     |                |    |   |   |        |
| (b) | $\frac{3}{3}$   | is | <table border="1"><tr><td>1</td></tr></table> | 1 | wholes | (g) | $\frac{6}{3}$  | is | <table border="1"><tr><td>2</td></tr></table> | 2 | wholes |
| 1   |                 |    |   |   |        |     |                |    |   |   |        |
| 2   |                 |    |   |   |        |     |                |    |   |   |        |
| (c) | $\frac{14}{7}$  | is | <table border="1"><tr><td>2</td></tr></table> | 2 | wholes | (h) | $\frac{16}{4}$ | is | <table border="1"><tr><td>4</td></tr></table> | 4 | wholes |
| 2   |                 |    |   |   |        |     |                |    |   |   |        |
| 4   |                 |    |   |   |        |     |                |    |   |   |        |
| (d) | $\frac{15}{5}$  | is | <table border="1"><tr><td>3</td></tr></table> | 3 | wholes | (i) | $\frac{30}{6}$ | is | <table border="1"><tr><td>5</td></tr></table> | 5 | wholes |
| 3   |                 |    |   |   |        |     |                |    |   |   |        |
| 5   |                 |    |   |   |        |     |                |    |   |   |        |
| (e) | $\frac{30}{10}$ | is | <table border="1"><tr><td>3</td></tr></table> | 3 | wholes | (j) | $\frac{12}{2}$ | is | <table border="1"><tr><td>6</td></tr></table> | 6 | wholes |
| 3   |                 |    |   |   |        |     |                |    |   |   |        |
| 6   |                 |    |   |   |        |     |                |    |   |   |        |

**(6) How many halves are there?**

- |     |                |    |  |    |        |     |                |    |  |    |        |
|-----|----------------|----|--|----|--------|-----|----------------|----|--|----|--------|
| (a) | $\frac{16}{2}$ | is | <table border="1"><tr><td>8</td></tr></table>  | 8  | halves | (f) | $\frac{48}{2}$ | is | <table border="1"><tr><td>24</td></tr></table> | 24 | halves |
| 8   |                |    |  |    |        |     |                |    |  |    |        |
| 24  |                |    |  |    |        |     |                |    |  |    |        |
| (b) | $\frac{20}{2}$ | is | <table border="1"><tr><td>10</td></tr></table> | 10 | halves | (g) | $\frac{32}{2}$ | is | <table border="1"><tr><td>16</td></tr></table> | 16 | halves |
| 10  |                |    |  |    |        |     |                |    |  |    |        |
| 16  |                |    |  |    |        |     |                |    |  |    |        |
| (c) | $\frac{50}{2}$ | is | <table border="1"><tr><td>25</td></tr></table> | 25 | halves | (h) | $\frac{70}{2}$ | is | <table border="1"><tr><td>35</td></tr></table> | 35 | halves |
| 25  |                |    |  |    |        |     |                |    |  |    |        |
| 35  |                |    |  |    |        |     |                |    |  |    |        |
| (d) | $\frac{18}{2}$ | is | <table border="1"><tr><td>9</td></tr></table>  | 9  | halves | (i) | $\frac{30}{2}$ | is | <table border="1"><tr><td>15</td></tr></table> | 15 | halves |
| 9   |                |    |  |    |        |     |                |    |  |    |        |
| 15  |                |    |  |    |        |     |                |    |  |    |        |
| (e) | $\frac{80}{2}$ | is | <table border="1"><tr><td>40</td></tr></table> | 40 | halves | (j) | $\frac{90}{2}$ | is | <table border="1"><tr><td>45</td></tr></table> | 45 | halves |
| 40  |                |    |  |    |        |     |                |    |  |    |        |
| 45  |                |    |  |    |        |     |                |    |  |    |        |

**(7) How many thirds are there?**

- |     |                |    |  |    |        |     |                |    |  |    |        |
|-----|----------------|----|--|----|--------|-----|----------------|----|--|----|--------|
| (a) | $\frac{12}{3}$ | is | <table border="1"><tr><td>4</td></tr></table>  | 4  | thirds | (f) | $\frac{60}{3}$ | is | <table border="1"><tr><td>20</td></tr></table> | 20 | thirds |
| 4   |                |    |  |    |        |     |                |    |  |    |        |
| 20  |                |    |  |    |        |     |                |    |  |    |        |
| (b) | $\frac{21}{3}$ | is | <table border="1"><tr><td>7</td></tr></table>  | 7  | thirds | (g) | $\frac{45}{3}$ | is | <table border="1"><tr><td>15</td></tr></table> | 15 | thirds |
| 7   |                |    |  |    |        |     |                |    |  |    |        |
| 15  |                |    |  |    |        |     |                |    |  |    |        |
| (c) | $\frac{24}{3}$ | is | <table border="1"><tr><td>8</td></tr></table>  | 8  | thirds | (h) | $\frac{75}{3}$ | is | <table border="1"><tr><td>25</td></tr></table> | 25 | thirds |
| 8   |                |    |  |    |        |     |                |    |  |    |        |
| 25  |                |    |  |    |        |     |                |    |  |    |        |
| (d) | $\frac{36}{3}$ | is | <table border="1"><tr><td>12</td></tr></table> | 12 | thirds | (i) | $\frac{42}{3}$ | is | <table border="1"><tr><td>14</td></tr></table> | 14 | thirds |
| 12  |                |    |  |    |        |     |                |    |  |    |        |
| 14  |                |    |  |    |        |     |                |    |  |    |        |
| (e) | $\frac{27}{3}$ | is | <table border="1"><tr><td>9</td></tr></table>  | 9  | thirds | (j) | $\frac{48}{3}$ | is | <table border="1"><tr><td>16</td></tr></table> | 16 | thirds |
| 9   |                |    |  |    |        |     |                |    |  |    |        |
| 16  |                |    |  |    |        |     |                |    |  |    |        |

**(8) How many quarters are there?**

- |     |                |    |  |    |          |     |                 |    |  |    |          |
|-----|----------------|----|--|----|----------|-----|-----------------|----|--|----|----------|
| (a) | $\frac{24}{4}$ | is | <table border="1"><tr><td>6</td></tr></table>  | 6  | quarters | (f) | $\frac{32}{4}$  | is | <table border="1"><tr><td>8</td></tr></table>  | 8  | quarters |
| 6   |                |    |  |    |          |     |                 |    |  |    |          |
| 8   |                |    |  |    |          |     |                 |    |  |    |          |
| (b) | $\frac{80}{4}$ | is | <table border="1"><tr><td>20</td></tr></table> | 20 | quarters | (g) | $\frac{100}{4}$ | is | <table border="1"><tr><td>25</td></tr></table> | 25 | quarters |
| 20  |                |    |  |    |          |     |                 |    |  |    |          |
| 25  |                |    |  |    |          |     |                 |    |  |    |          |
| (c) | $\frac{20}{4}$ | is | <table border="1"><tr><td>5</td></tr></table>  | 5  | quarters | (h) | $\frac{60}{4}$  | is | <table border="1"><tr><td>15</td></tr></table> | 15 | quarters |
| 5   |                |    |  |    |          |     |                 |    |  |    |          |
| 15  |                |    |  |    |          |     |                 |    |  |    |          |
| (d) | $\frac{16}{4}$ | is | <table border="1"><tr><td>4</td></tr></table>  | 4  | quarters | (i) | $\frac{52}{4}$  | is | <table border="1"><tr><td>13</td></tr></table> | 13 | quarters |
| 4   |                |    |  |    |          |     |                 |    |  |    |          |
| 13  |                |    |  |    |          |     |                 |    |  |    |          |
| (e) | $\frac{28}{4}$ | is | <table border="1"><tr><td>7</td></tr></table>  | 7  | quarters | (j) | $\frac{64}{4}$  | is | <table border="1"><tr><td>16</td></tr></table> | 16 | quarters |
| 7   |                |    |  |    |          |     |                 |    |  |    |          |
| 16  |                |    |  |    |          |     |                 |    |  |    |          |