



To be completed on loose-leaf paper.

Due date: _____

① Write these fractions in simplest form.

Example: $\frac{3 \cdot 27n}{2 \cdot 18} = \frac{3n}{2}$

(a) $\frac{10}{12}$

(b) $\frac{7a}{9a}$

(c) $\frac{20m}{24}$

(d) $\frac{60n}{32}$

② Simplify the following.

Example: $\frac{2n}{3} + \frac{n}{4} = \frac{8n}{12} + \frac{3n}{12} = \frac{5n}{12}$

(a) $\frac{3}{11} + \frac{4}{11}$

(b) $\frac{5}{6} - \frac{2}{3}$

(c) $\frac{3}{7} + \frac{1}{8}$

(d) $\frac{3x}{11} + \frac{4x}{11}$

(e) $\frac{7d}{12} - \frac{d}{12}$

(f) $\frac{3a}{4} + \frac{2a}{7}$

③ Solve these equations.

(a) $3y = 15$

(b) $\frac{a}{4} = -2$

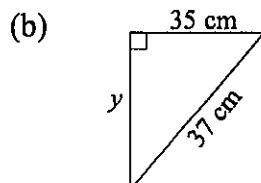
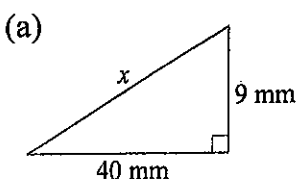
(c) $a + 7 = 10$

(d) $6 - p = 10$

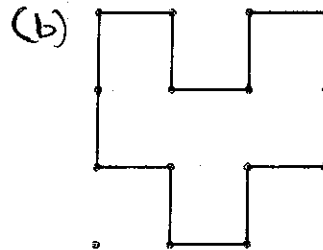
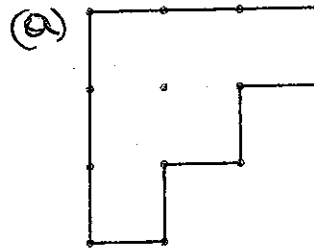
(e) $\frac{y+1}{5} = 2$

(f) $2p - 1 = -11$

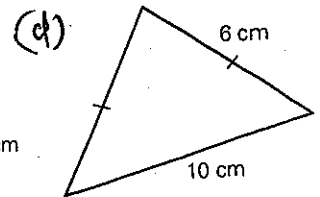
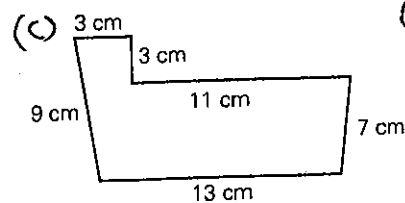
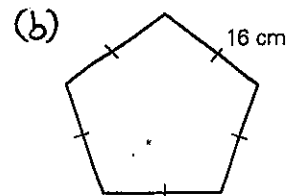
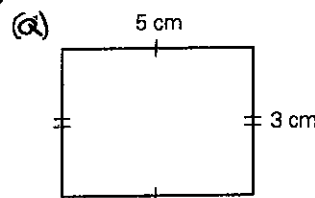
④ Use Pythagoras' theorem to calculate the unknown side length of these triangles.



⑤ Find the perimeter of each of the following shapes, which are drawn on 1 cm square dot paper.



⑥ Find the perimeters of the following shapes.



⑦ Find the perimeter, in cm, of the shape below.

