Mixed revision 2

See Exercise 4-03

1 Evaluate each expression.

a $\frac{1}{2}+\frac{1}{3}$ **b** $\frac{1}{3}+\frac{2}{5}$ **c** $\frac{1}{2}-\frac{3}{8}$

See Exercise 4-10

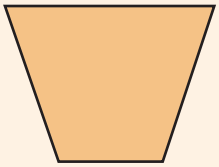
2 Convert each fraction to a percentage.

a $\frac{1}{4}$ **b** $\frac{3}{5}$ **c** $\frac{23}{40}$

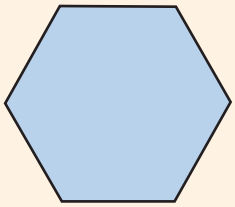
See Exercise 6-03

3 Copy each shape and mark in its axes of symmetry.

a



b



c

See Exercise 5-03

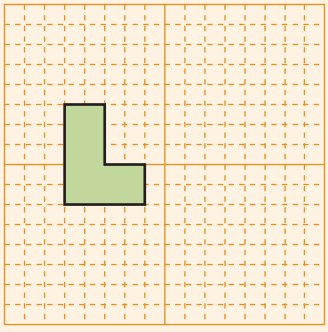
4 Simplify each expression.

a $w \times 2$ **b** $a \times a$ **c** $4 \times a \times b \times k$ **d** $p + p + p + p$

e $m \div 2$ **f** $h - h$ **g** $6k + 2k$ **h** $5 \times m \times 2$

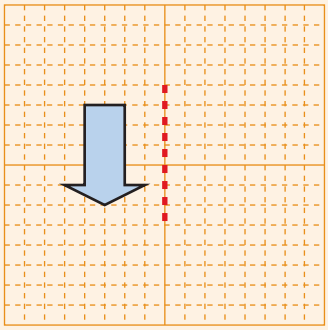
See Exercise 6-01

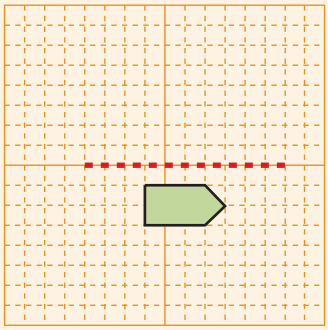
5 Copy and translate the L-shape 5 units to the right and 2 units down.

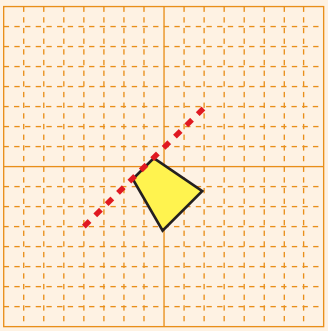


See Exercise 6-01

6 Copy each shape on square dot paper and reflect it across the dashed line.







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7 Change each improper fraction to a mixed numeral. *See* Exercise 4-01

a $\frac{12}{5}$ **b** $\frac{7}{2}$ **c** $\frac{5}{3}$ **d** $\frac{11}{6}$

8 Simplify each fraction. *See* Exercise 4-01

a $\frac{8}{10}$ **b** $\frac{12}{18}$ **c** $\frac{15}{24}$ **d** $\frac{70}{100}$

9 Evaluate the following: *See* Exercise 5-01

a $32 + 24 + 6$ **b** 2×900 **c** $-12 + 22$ **d** $31 \times 5 \times 4$

10 Evaluate each product. *See* Exercise 5-02

a 18×11 **b** 24×8 **c** 15×9 **d** 22×12

11 Copy and complete each statement with a $>$ or $<$ symbol. *See* Exercise 4-02

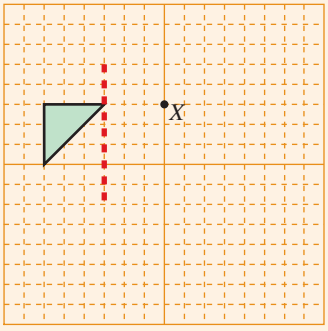
a $\frac{1}{3} \square \frac{1}{4}$ **b** $\frac{2}{5} \square \frac{5}{10}$ **c** $\frac{5}{7} \square \frac{3}{5}$

12 Evaluate each expression. *See* Exercise 4-04

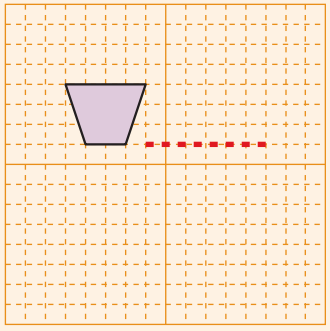
a $5\frac{3}{4} + 1\frac{2}{3}$ **b** $4\frac{3}{5} - 1\frac{1}{2}$ **c** $1\frac{2}{3} - \frac{7}{8}$

13 Copy each shape and draw the image after performing the stated composite transformations. *See* Exercise 6-02

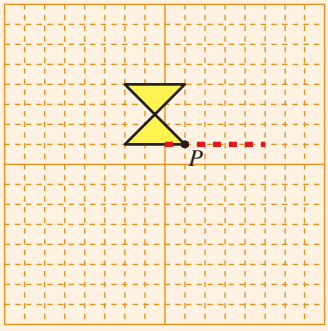
a Reflect across the line, rotate 90° clockwise about X



b Translate 5 units right, then reflect across the line



c Rotate 90° clockwise about P, then reflect across the line, then translate 3 units left



14 For each shape: *See* Exercise 6-04

i find how many axes of symmetry it has

ii state whether it has rotational symmetry and if it does, state the order

a

b

c

Mixed revision 2

See Exercise 4-05

15 Find $\frac{3}{8}$ of 2 m (in cm)

See Exercise 4-06

16 Evaluate each product.

a $\frac{3}{5} \times \frac{1}{2}$ **b** $\frac{2}{3} \times \frac{7}{12}$ **c** $3\frac{1}{3} \times 2\frac{1}{2}$

See Exercise 5-05

17 Evaluate each expression.

a $m - 3$ if $m = -2$ **b** $2p - 1$ if $p = 10$ **c** $\frac{2d}{3}$ if $d = 12$

See Exercise 5-07

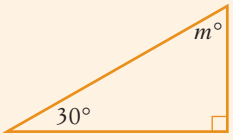
18 Solve each equation.

a $x + 11 = 34$ **b** $3x = -27$ **c** $d - 3 = -9$ **d** $\frac{m}{5} = 1$

See Exercise 6-05

19 Classify each triangle by sides and by angles.

a



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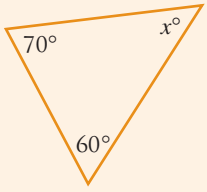

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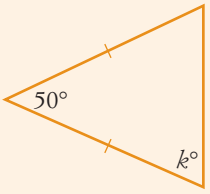
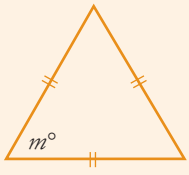


d



See Exercise 6-06

20 Find the value of the pronumeral in each triangle in question **19**.

See Exercise 4-10

21 Convert each decimal to a percentage.

a 0.4 **b** 0.05 **c** 0.12

See Exercise 4-11

22 Find:

a 5% of \$200 **b** 30% of 1 hour (in mins)

See Exercise 5-04

23 Write an expression for each statement.

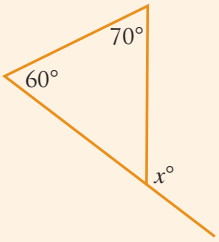
a the product of p and q **b** 4 less than x **c** d decreased by 7

d the number of girls if there are b boys in a class of 28 students

See Exercise 6-07

24 Find the value of each pronumeral.

a



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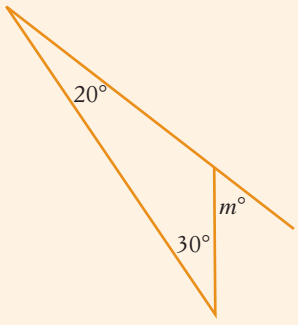

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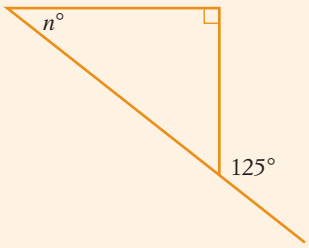

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25 Evaluate each quotient. *See* Exercise 4-07

a $\frac{3}{4} \div \frac{1}{2}$ **b** $\frac{2}{10} \div 5$ **c** $2\frac{1}{2} \div \frac{3}{5}$

26 Chloe owns 40 pairs of shoes. Two pairs are black. *See* Exercise 4-12

a What fraction of Chloe's shoes are black?

b What percentage of Chloe's shoes are black?

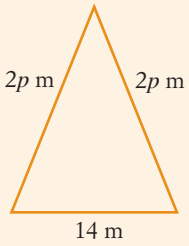
27 Solve each equation. *See* Exercise 5-08

a $5m - 3 = 22$ **b** $6n + 3 = 12$ **c** $-3x - 11 = -20$ **d** $\frac{x}{2} + 5 = 9$

28 Solve each problem by writing an equation and then solving it. *See* Exercise 5-09

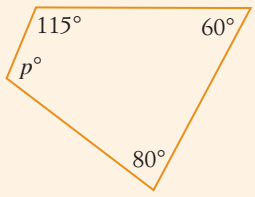
a If you multiply Mr Ha's age by 4 and add 16 you obtain 200. How old is Mr Ha? (Let h be his age.)

b The perimeter of this isosceles triangle is 56 cm. Find the value of p.



29 Find the value of each pronumeral. *See* Exercise 6-09

a



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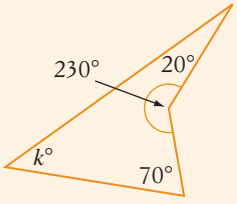

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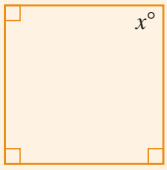

30 Name each quadrilateral whose definition is given below. *See* Exercise 6-08

a The quadrilateral with opposite sides parallel.

b The quadrilateral with four right angles.

c The quadrilateral with four equal sides and four equal angles.

d The quadrilateral with two pairs of equal adjacent sides.