C4.12 | Fractions and ratios

1. Add. Give the answer in simplest form.

$\frac{3}{8} + \frac{5}{6} =$ _____

2. Add. Give the answer in simplest form.

$1\frac{3}{4} + 2\frac{2}{3} =$ _____

3. Subtract. Give the answer in simplest form.

$4\frac{1}{5} - 2\frac{3}{4} =$ _____

4. Multiply. Give the answer in simplest form.

$4 \times 1\frac{3}{8} =$ _____

5. Divide. Give the answer in simplest form.

$2\frac{1}{4} \div 1\frac{1}{2} =$ _____

6. Write the ratio in simplest form.

$2\frac{1}{4} : 1\frac{1}{2} =$ _____

C4.12 | Decimals and percentages

7. Write the mixed number as a decimal.

$3\frac{3}{8}$ = _____

8. Convert millilitres to litres.

875 mL = _____ L

9. Write the mixed number as a percentage.

$1\frac{3}{5}$ = _____ %

10. Write the percentage as a decimal.

$12\frac{1}{2}$ % = _____

11. What percentage of $1.20 is 48 cents?

Percentage: _____ %

12. Increase $480 by 12.5%.

New amount: _____

C4.12 | Money and finance

13. Which is the best buy? Write a), b) or c).

a) 750 mL of juice for $4.35

b) 1.5 L of juice for $8.40

c) 2 L of juice for $11.80

Best buy: _____

14. Shoes normally cost $96.00.

They are discounted by 25%. Find the sale price.

Sale price: _____

15. Calculate the net wage after tax.

Hours worked: 42 hours

Pay rate: $31.50 per hour

Tax: 20% of gross wage

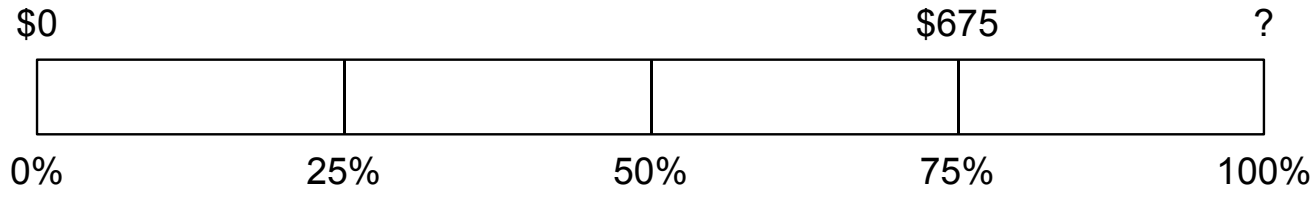
Net wage: _____

16. Find the phone's original price.

Sale price: $675 after a 25% discount.

Each equal bar section is 25% of the original price.

Original price: _____



C4.12 | Patterns and algebra

17. Rewrite without multiplication signs.

Do not collect like terms.

a) $q \times 8 - q \times 3 =$ _____

b) $2 \times r \times 5 \times s =$ _____

18. Rewrite using index notation.

a) $4 \times n \times n \times 3 =$ _____

b) $a \times b \times a \times 3 \times b =$ _____

19. When $y = 5$, find x in each equation.

a) $x = 3y + 4$ _____

b) $x = 6y - 7$ _____

20. Simplify each expression.

a) $7x - 12x =$ _____ b) $9x + 4x =$ _____

21. Continue each stated pattern.

The first number shown is term 1.

a) 25, 36, 49, 64, … (consecutive squares)

Term 18: _____

b) 3, 9, 27, 81, … (multiply by 3)

Term 7: _____