

1

Calculate.

(Calculation skill)

(1) $75 \div 5$

(2) $299 \div 23$

(3) $(57 - 25) \div 8$

(4) $49 + 41 \times 23$

(5) $1.36 + 3.89$

(6) $42.1 - 9.73$

(7) 0.6×1.9

(8) $47.6 \div 2.8$

(9) $\frac{1}{9} + \frac{1}{3}$

(10) $2\frac{1}{6} - \frac{11}{12}$

(11) $\frac{8}{21} \times 14$

(12) $\frac{5}{18} \div 10$

2

Fill in the blanks with numbers for (13) and (15) and a unit for (14).

(13) The sum of two 0.1s and nine 0.01s is .

(14) $800 \text{ m}^2 = 8$

(15) $4100000 \text{ cm}^3 =$ m^3

3

Alice had 9 m of string. She cut it and gave 1.85 m to Bob and 2.23 m to Caroline.

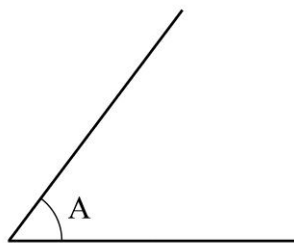
- (16) Find the total length, in m, of string that Alice gave to Bob and Caroline.
- (17) How many m longer is Caroline's string than Bob's string?
- (18) After giving string to Bob and Caroline, find the length, in m, of string Alice has left.

4

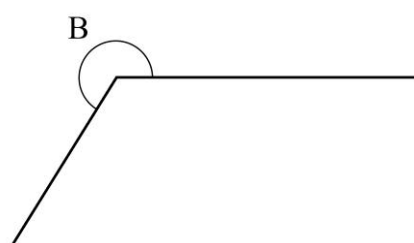
Measure angles A and B using a protractor.

(Measurement skill)

(19)



(20)

**5**

Nick has rectangular cards of length 8 cm and width 6 cm. He makes a square by aligning the rectangular cards in the same direction so that the area of the square is as small as possible.

- (21) Find the length, in cm, of the side of the square.
- (22) How many rectangular cards are used to make the square?
- (23) Find the area, in cm^2 , of the square.

6

John receives a 600 yen allowance from his mother every month.

- (24) He puts 10 % of his monthly allowance into savings. Find the amount of money he puts into savings.
- (25) He paid 480 yen for a book. What percent of his monthly allowance did he use for the book?
- (26) He has 720 yen in savings. What percent of his monthly allowance is this? Write the steps leading to your answer.

7

A fish tank has length of 50 cm, width of 30 cm and height of 20 cm. You don't need to consider the thickness of the tank. Include units in your answer.

- (27) Find the volume, in cm^3 , of water needed to fill the fish tank.
- (28) Find the height, in cm, of water in the fish tank if 15 L of water was poured into an empty tank.

8

In the following calculation, letters A, B and C are integers.

$$\frac{1}{A} + \frac{1}{B} + \frac{1}{C} = 1$$

- (29) If A, B and C are the same integer, find the integer.
- (30) If A is 2 and B and C are the same integer, find the integer for B and C.