

Grade 7 中學1年級

1.  $5(2x+8) = 10$ ;  $x=?$

- a. -7                      b. -5                      c. -4                      d. -3

2. 如果 $5^2$ 表示 $5 \times 5$ , 計算 $5^3$ 。 If  $5^2$  means  $5 \times 5$ , work out  $5^3$ .

- a. 5                      b. 15                      c. 125                      d. 225

3. 6287.64取3位有效數字。 Correct 6287.64 to 3 significant figures.

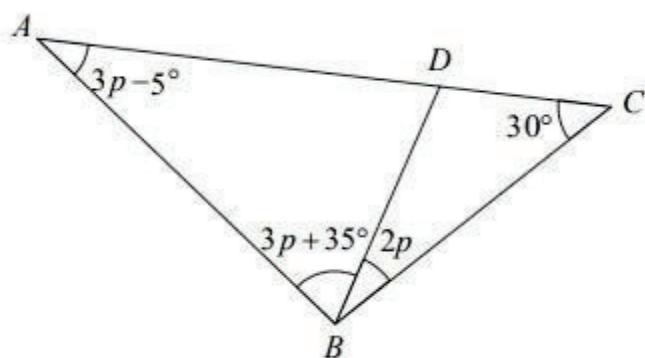
- a. 6280                      b. 6290                      c. 6295                      d. 6300

4. 瑪麗將她的薪水的  $\frac{1}{4}$  用於房租,  $\frac{1}{5}$  用於食物, 並將其餘部分儲蓄。儲蓄的金額佔薪水的百分比是多少?

Mary spends  $\frac{1}{4}$  of her salary on rent,  $\frac{1}{5}$  on food and saves the rest. What percentage of the salary is saved?

- a. 50%                      b. 48%                      c. 60%                      d. 55%

5. Find the value of  $p$ . 求 $p$  的值.



- a. 5                      b. 10                      c. 15                      d. 20

Answers:

1. d

2. c

3. c

4. d

5. c

**Grade 8 中學2年級**

1. 簡化  $(3a - 5b) - (4a - 8b)$ 。Simplify  $(3a - 5b) - (4a - 8b)$ .

- a.  $3b - a$                       b.  $3 + 3b$                       c.  $7a + b$                       d.  $7a - 13b$

2. 使得  $(x + 3)(3 - 5x) = Ax^2 + Bx + 18$ , 找出A和B的值。

Find the unknown constants A and B such that  $(x + 3)(3 - 5x) = Ax^2 + Bx + 18$ .

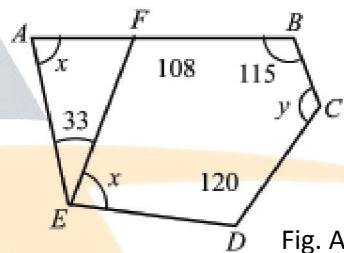
- a.  $A = -3, B = -12$                       b.  $A = 3, B = 12$                       c.  $A = -5, B = -12$                       d.  $A = -1, B = -12$

3. 因式分解  $2x^2 + 4x + 1$ 。Factorize  $2x^2 + 4x + 1$ .

- a.  $(x + 1)^2 - 10$                       b.  $(x + 2)^2 - 4$                       c.  $2(x + 1)^2 - 1$                       d.  $3(x + 1)^2 - 4$

4. 在 Fig. A 中, AFB 是一條直線。找出 x 和 y 的值。

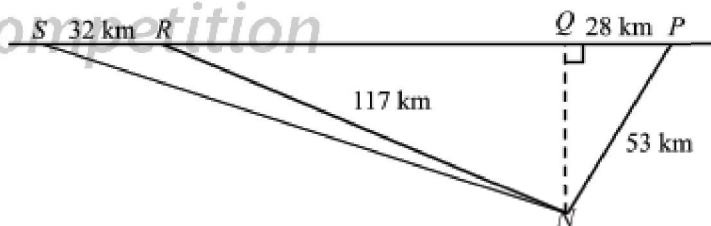
In the Fig. A, AFB is a straight line. Find x and y.



- a.  $x = 75^\circ; y = 122^\circ$                       b.  $x = 78^\circ; y = 125^\circ$                       c.  $x = 72^\circ; y = 123^\circ$                       d.  $x = 74^\circ; y = 120^\circ$

5. 在 Fig. B 中, PQRS 是一條直線道路。找出 Q 和 R 之間的距離。

In the Fig. B, PQRS is a straight road. Find the distance between Q and R.



- a. 108                      b. 109                      c. 110                      d. 111

**Answers:**

**1. a**

**2. c**

**3. c**

**4. a**

**5. a**