Name: _____( ) Class: _____

Ch3 Quiz

1. Which of the following can be represented by the inequality $P \geq 10$?

I. P is at least 10.

II. P is not less than 10.

III. The minimum value of P is 10.

A. I and II only

B. I and III only

C. II and III only

D. I, II and III

2. Which of the following numbers can be the solutions of the inequality $x \leq -2$?

I. *0*

II. –2

III. –2.5

A. I and II only

B. I and III only

C. II and III only

D. I, II and III

3. Solve the inequality $5 + 2x < 1$.

A. $x < -2$

B. $x > -2$

C. $x < 2$

D. $x > 2$

4. The amount of money that Katy has is at most \$60 more than that of Betty. If Katy has \$$x$ and the amount of money that Betty has is half of that of Katy, which of the following inequalities can be used to find the range of values of x?

A. $x < \frac{x}{2} + 60$

B. $x \leq \frac{x}{2} + 60$

C. $2x < x + 60$

D. $2x \leq x + 60$

5. Solve the following inequalities and represent the solutions graphically.

(a) $x - 1 \leq \frac{8x + 7}{5}$

(b) $\frac{5x - 2}{8} - \frac{2x + 1}{6} > -1$

6. **(a)** Solve the inequality $3(2-2x) > -5(4-x)$ and represent the solutions graphically.

(b) Find the greatest positive integer that satisfies the inequality in (a).

7. The selling prices of a badminton racket and a table tennis racket are \$120 and \$50 respectively. Anna has \$800 in her pocket and wants to buy some badminton rackets and table tennis rackets for her family.

(a) If she wants to buy 5 badminton rackets and some table tennis rackets, at most how many table tennis rackets can she buy?

(b) If she wants to buy 8 rackets for her family, at most how many badminton rackets should she buy?

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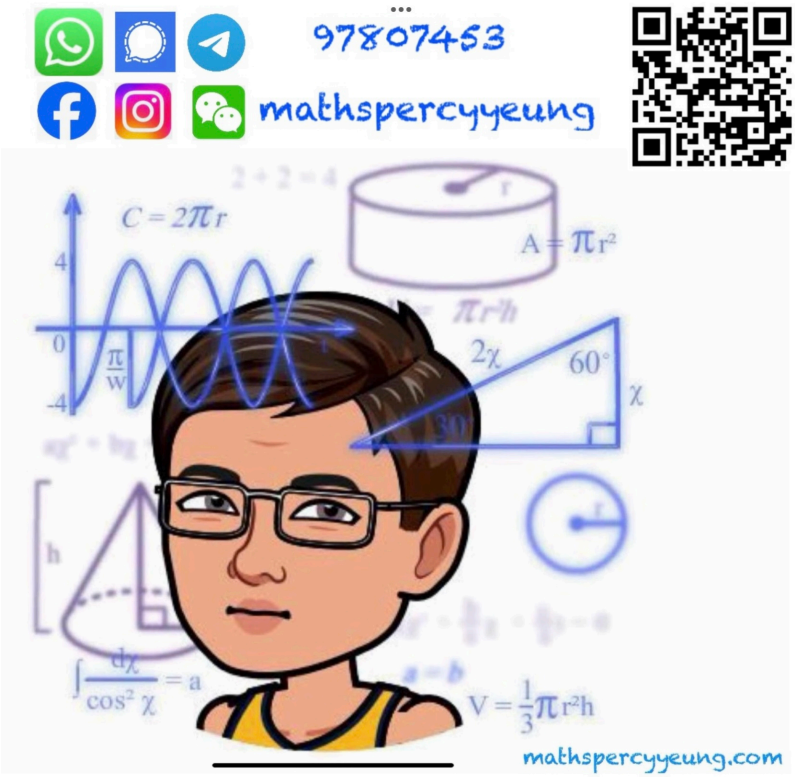
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$C = 2\pi r$
$A = \pi r^2$
$V = \frac{1}{3}\pi r^2 h$
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