

Part A: Sample Questions

1. What is $(-2) \times (-1) \times (-3)$?

Answer: _____

(Record your answer as an **integer** value on the answer sheet.)

2. Evaluate $(-1)^2 - (-1)^3 - 1^4$.

Answer: _____

(Record your answer as an **integer** value on the answer sheet.)

3. What is the value of $\frac{(-4)^2 \times (-4)^3 \times (-4)^4}{(-4)^6}$?

Answer: _____

(Record your answer as an **integer** value on the answer sheet.)

4. What is the value of $\frac{1}{5} + 0.2 \times \frac{2}{3}$ expressed as a fraction in simplest form?

Answer: $\frac{\square}{\square}$ (Record the **numerator** in the **first** column)
(Record the **fraction bar** in the **second** column)
(Record the **denominator** in the **third** column)

(Record your answer on the answer sheet.)

5. What is the value of $\frac{25}{75} \times \frac{16}{24} \div \frac{8}{27}$ expressed as a fraction in simplest form?

Answer: $\frac{\square}{\square}$ (Record the **numerator** in the **first** column)
(Record the **fraction bar** in the **second** column)
(Record the **denominator** in the **third** column)

(Record your answer on the answer sheet.)

6. What is the value of $\frac{1}{8} + 0.25 + 0.5$ expressed as a fraction in simplest form?

Answer: $\frac{\square}{\square}$ (Record the **numerator** in the **first** column)
(Record the **fraction bar** in the **second** column)
(Record the **denominator** in the **third** column)

(Record your answer on the answer sheet.)

7. Given $(4 \times 5)^7 = 4^{\blacksquare} \times 5^7$, what is the value of \blacksquare ?

Answer: $\blacksquare =$ _____

(Record your answer as an **integer** value on the answer sheet.)

8. In simplest form, what is the value of $\left(3.25 + \frac{3}{4}\right) \div 0.25$?

Answer: _____

(Record your answer as an **integer** value on the answer sheet.)

9. Solve $\frac{3}{x} = 0.5$.

Answer: $x =$ _____

(Record your answer as an **integer** value on the answer sheet.)

10. Solve for x in the following equation.

$$2.6 + x = 4x + 1.4.$$

Express your answer to the nearest tenth.

Answer: $x =$ _____

(Record your answer on the answer sheet.)

11. Solve for x in the following equation.

$$-2(3x - 4) = 2(x + 6).$$

Express your answer to the nearest tenth.

Answer: $x =$ _____

(Record your answer on the answer sheet.)

12. Solve for x in the following equation.

$$0.4(20 - 10x) = 14x - 28$$

Answer: $x =$ _____

(Record your answer as an **integer** value on the answer sheet.)

13. Evaluate the expression $-4(7 - 2x)$, where $x = -1$.

Answer: _____

(Record your answer as an **integer** value on the answer sheet.)

14. What is the approximate square root of

$$\sqrt{\frac{145}{4}}$$
 to the nearest whole number?

Answer: _____

(Record your answer on the answer sheet.)

15. Order the following rational numbers from **smallest** value to **greatest** value, using the numbers **1, 2, 3, and 4**.

Use the number **1** to represent the **smallest** value and the number **4** to represent the **greatest** value.

Answer: _____, _____, _____, _____
 $\sqrt{\frac{4}{9}}$ $-1.\bar{5}$ -1.75 $-\frac{8}{5}$

(Record all **four digits** of your answer on the answer sheet.)

16. Order the following rational numbers from **smallest** value to **greatest** value, using the numbers **1, 2, 3, and 4**.

Use the number **1** to represent the **smallest** value and the number **4** to represent the **greatest** value.

Answer: _____, _____, _____, _____
 -0.75 $\frac{-3}{-5}$ $-0.\bar{6}$ $-\left(\frac{-5}{-2}\right)$

(Record all **four digits** of your answer on the answer sheet.)

17. What is the value of $0.4 \div 2 + \sqrt{\frac{9}{36}} \times 1\frac{1}{5}$ expressed as a fraction in simplest form?

Answer:

 (Record the **numerator** in the **first** column)
(Record the **fraction bar** in the **second** column)
(Record the **denominator** in the **third** column)

(Record your answer on the answer sheet.)

Use the following information to answer question 18.

Inequality Symbols			
Symbol 1 >	Symbol 2 ≥	Symbol 3 <	Symbol 4 ≤

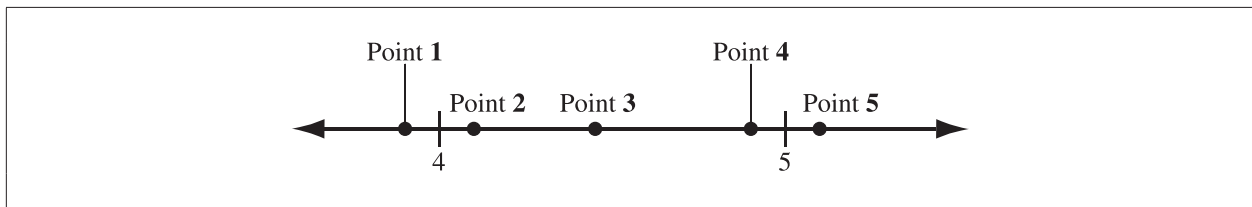
18. Solve the inequality $10 - 2x \geq -4$.

Answer: x _____

Symbol number	Value
(Record in the first box)	(Record in the second box)

(Record **both digits** of your answer on the answer sheet.)

Use the following information to answer question 19.

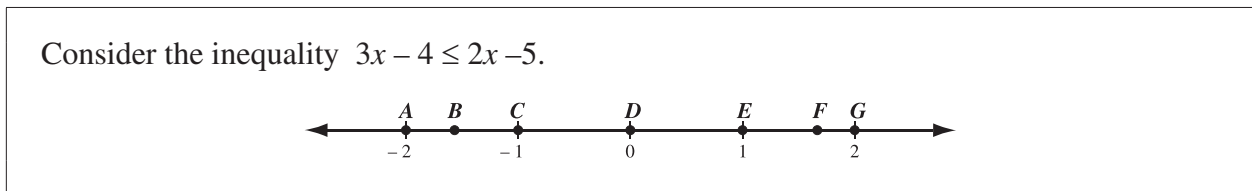


19. Which points **best** represent an approximate value for $\sqrt{17}$, $\sqrt{23}$, and $\sqrt{27}$?

Answer: **Point:** _____
Number: $\sqrt{17}$ $\sqrt{23}$ $\sqrt{27}$

(Record all **three digits** of your answer on the answer sheet.)

Use the following information to answer question 20.



20. How many of the points labelled with a letter on the number line above satisfy the inequality?

Answer: _____ **points**

(Record your answer on the answer sheet.)