



**Solve for x:  $3x = -18$**

A)  $x = -6$

C)  $x = -54$

B)  $x = 6$

D)  $x = 54$

Q5 · Ratios & Proportions

■ CROSS MULTIPLY:  $a/b = c/d \rightarrow ad = bc$

**Solve:  $x/5 = 9/15$**

A)  $x = 1$

C)  $x = 3$

B)  $x = 5$

D)  $x = 27$

Q6 · Percentages

■ Part  $\div$  Whole  $\times 100$  | IS/OFF =  $\%/100$

**What is 15% of 80?**

A) 15

C) 8

B) 12

D) 20

Q7 · Exponents

■ BASE  $\times$  BASE  $\times$  BASE... (count the exponent)

**What is  $(-3)^3$ ?**

A) 27

C) -9

B) 9

D) -27

Q8 · Distributive Property

■ DISTRIBUTE EVERYTHING:  $a(b+c) = ab + ac$

**Expand:  $-2(3x - 5)$**

A)  $-6x - 5$

C)  $6x - 10$

B)  $-6x + 10$

D)  $-6x - 10$

Q9 · Inequalities

■ FLIP the sign when  $\div$  or  $\times$  by a NEGATIVE

**Solve:  $-4x \leq 20$**

A)  $x \leq -5$

C)  $x \leq 5$

B)  $x \geq -5$

D)  $x \geq 5$

Q10 · Combining Like Terms

■ SAME VARIABLE & SAME POWER only

**Simplify:  $4x^2 + 3x - x^2 + 2x - 7$**

A)  $8x^2 + 5x - 7$

C)  $3x^2 + x - 7$

B)  $3x^2 + 5x - 7$

D)  $5x^2 + 5x - 7$

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Part II — Geometry (Questions 11–20)

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## Answer Key

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<b>Q1: A</b>	<b>Q2: B</b>	<b>Q3: B</b>	<b>Q4: A</b>	<b>Q5: C</b>
<b>Q6: B</b>	<b>Q7: D</b>	<b>Q8: B</b>	<b>Q9: B</b>	<b>Q10: B</b>
<b>Q11: B</b>	<b>Q12: A</b>	<b>Q13: B</b>	<b>Q14: B</b>	<b>Q15: B</b>
<b>Q16: B</b>	<b>Q17: C</b>	<b>Q18: B</b>	<b>Q19: A</b>	<b>Q20: A</b>

Score: \_\_\_\_\_ / 20 | Percentage: \_\_\_\_\_ % | Date Checked: \_\_\_\_\_