مراجعة نهائية وفق الهيكل الوزاري - ريفيل

التواصل الاجتماعي بحسب الصف السابع

روابط مواد الصف السابع على تلغرام

الرياضيات	اللغة الانجليزية	اللغة العربية	التربية الاسلامية

Grade 7
Term 2 Revision

EoT Exam Coverage

Module 5 - 8

Mathematics/Reveal

مجلس

مؤسسـة الإمـارات للتعليـم المدرسـي
EMIRATES SCHOOLS ESTABLISHMENT

Part (1)

10 main questions

3 Marks per main question

MCQ

Simplify each expression.

3. $-y + 9z - 16y - 25z + 4$	**4.** $8z + x - 5 - 9z + 2$	**5.** $5c - 3d - 12c + d - 6$

Simplify each expression.

6. $-\dfrac{3}{4}x - \dfrac{1}{3} + \dfrac{7}{8}x - \dfrac{1}{2}$

7. $\dfrac{1}{4} + \dfrac{9}{10}y - \dfrac{3}{5}y + \dfrac{7}{8}$

8. $-\dfrac{1}{2}a + \dfrac{2}{5} + \dfrac{5}{6}a - \dfrac{1}{10}$

Add.

1. $(8x + 9) + (-6x - 2)$	**2.** $(5x + 4) + (-8x - 2)$	**3.** $(-7x + 1) + (4x - 5)$

Solve each equation. Check your solution.

1. $6 + y = -8$	**2.** $-12 = 4 + c$	**3.** $p - 11 = -5$	**4.** $12 = z - 8$

Factor each expression. If the expression cannot be factored, write cannot be factored

7. 5x + 35	**8.** 8x − 14	**9.** 3x + 11y

Factor each expression. If the expression cannot be factored, write cannot be factored

| **10.** 32x − 15 | **11.** 72x − 18xy | **12.** 45xy − 81y |

Solve each equation. Check your solution.

5. -7x = 56

6. -20 = -5b

7. $\dfrac{d}{-9} = -6$

Solve each inequality. Graph the solution set on a number line.
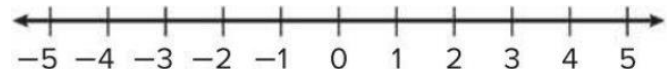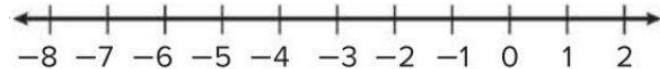
1. $x + 5 < 7$	**2.** $1 > x + 6$	**3.** $x + 8 \geq 14$

Solve each inequality. Graph the solution set on a number line.

4. 5 ≤ x + 12	**5.** x + 5.4 < -1.6	**6.** x + 7.5 > -2.5

−10 −9 −8 −7 −6 −5 −4 −3 −2 −1 0

−10 −9 −8 −7 −6 −5 −4 −3 −2 −1 0

−13 −12 −11 −10 −9 −8 −7 −6 −5 −4 −3

Solve each inequality. Graph the solution set on a number line.
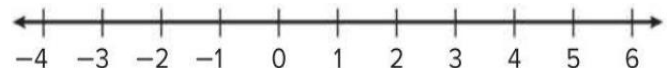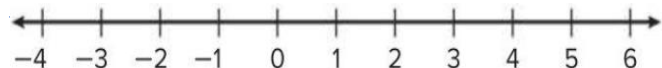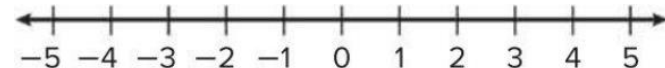
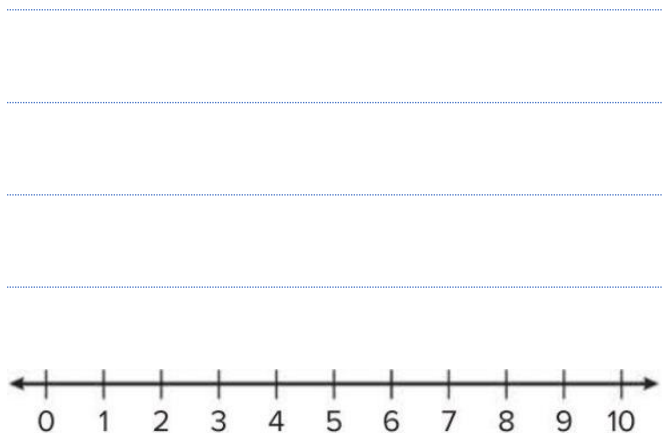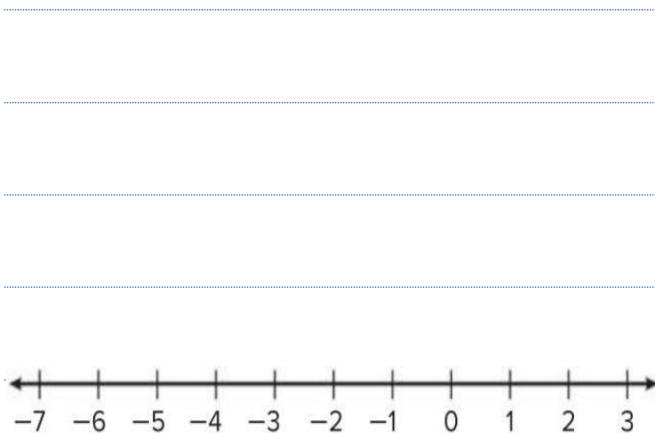| **1.** 3x > 12	**2.** 60 ≥ 12x	**3.** -14 ≥ 7x

Solve each inequality. Graph the solution set on a number line.

4. $2 \leq 0.25x$	**5.** $1.1x < -4.4$	**6.** $\dfrac{x}{6} \geq 2$
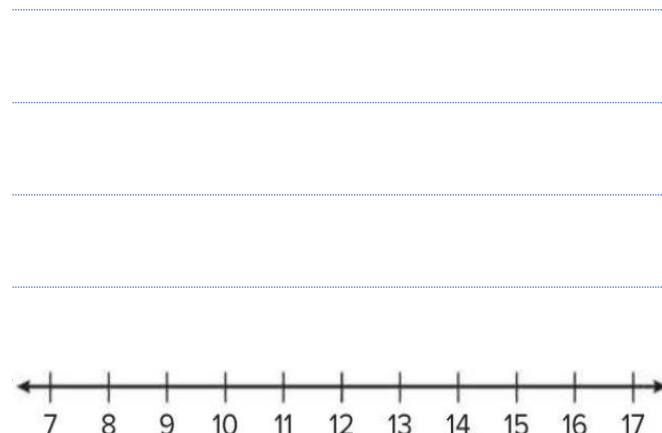
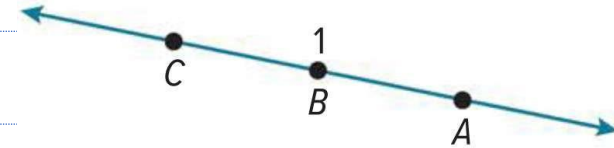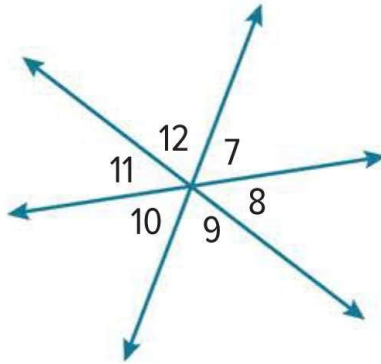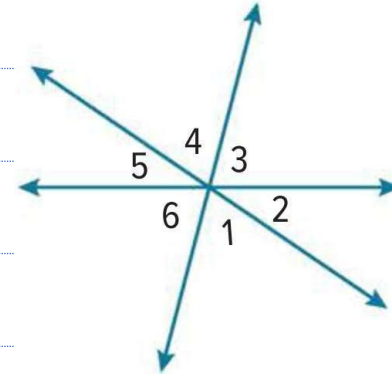**1.** Name the angle in four ways.
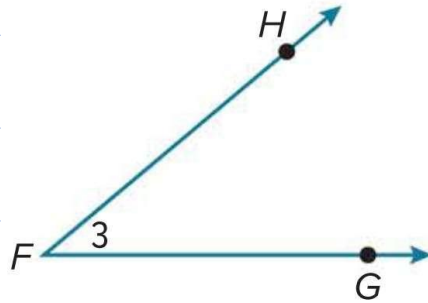
2. Name the angle in four ways.

3. Refer to the diagram below. Identify three pairs of vertical angles. Name all the angles that are adjacent to ∠10

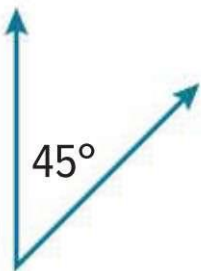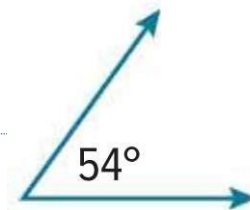**4.** Identify three pairs of vertical angles. Name all the angles that are adjacent to ∠3.

Give the measure of the angle that is complementary to the given angle.

1.

45°

2.

20°

3.

54°

Give the measure of the angle that is supplementary to the given angle.
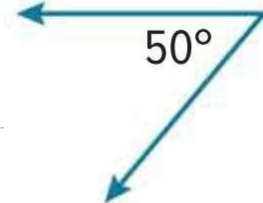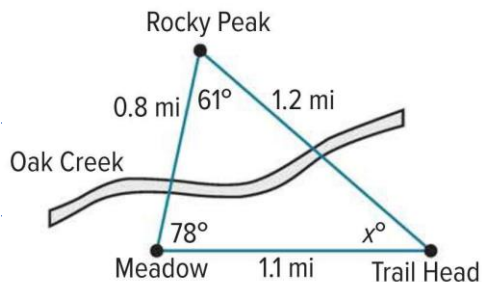
4.

128°

5.

160°

6.

50°

9. The figure shows the Oak Creek trail, which is shaped like a triangle. Solve the equation $61 + 78 + x = 180$ to find the value of x in the figure. Then classify the triangle by its angles and by its sides.

Rocky Peak

0.8 mi / 61° \ 1.2 mi

Oak Creek

78°   x°

Meadow   1.1 mi   Trail Head

10. The three towns of Ripon, Sparta, and Walker form a triangle as shown. Solve the equation $38 + 104 + x = 180$ to find the value of x in the triangle. Then classify the triangle by its angles and by its sides.

Ripon

38°

30 mi   47 mi

Sparta 104°   x° Walker

30 mi
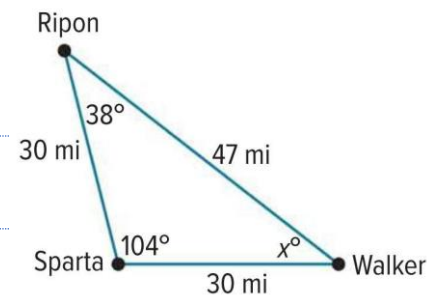
11. Reason Abstractly Without drawing the triangle, how do you know a triangle with a 95° angle, a 95° angle, and a 5-inch side is not possible?
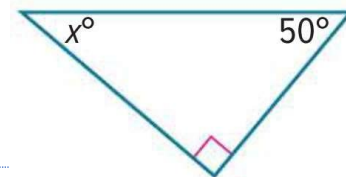
12. Find the value of x in the diagram. Then, find the supplement of the missing angle.

13. **Justify Conclusions** Construct an argument to explain why it is possible for a triangle to contain three acute angles.

14. Draw a triangle with one angle greater than 90° and no congruent sides. Then classify the triangle.

Part (2)

10 main questions

5 Marks per main question

MCQ

Use the Distributive Property to expand each expression.

9. $2(-3x + 5)$	**10.** $6(-4x + 3y)$	**11.** $(3y - 2z)5$

Use the Distributive Property to expand each expression.

12. $(-2x - 7)4$	**13.** $-7(x - 2)$	**14.** $-3(8x - 4)$

Add.

4. $(-3x - 9) + (4x + 8)$	**5.** $(-5x + 4) + (-9x - 3)$	**6.** $(-2x + 10) + (-8x - 1)$

Add.

7. $\left(\frac{1}{4}x - 3\right) + \left(\frac{3}{16}x + 5\right)$

8. $\left(\frac{1}{2}x - 3\right) + \left(\frac{1}{6}x + 1\right)$

9. $\left(4x + \frac{3}{4}\right) + \left(-3x - \frac{5}{12}\right)$

Solve each equation. Check your solution.

7. $\dfrac{d}{-9} = -6$

8. $15 = \dfrac{z}{-8}$

9. $2\dfrac{4}{5}x = -1\dfrac{1}{4}$

Solve each equation. Check your solution.

10. $-6 = \frac{3}{5}y$

11. $-6 = 0.2b$

12. $-0.8n = 2.8$

5. A hot air balloon is at an altitude of $100\frac{1}{5}$ yards. The balloon's altitude decreases by $10\frac{4}{5}$ yards every minute. Determine the number of minutes it will take the balloon to reach an altitude of 57 yards.

6. The current temperature is 48°F. It is expected to drop 1.5°F each hour. Determine in how many hours the temperature will be 36°F.

7. Mariko and her friend spent $24.50 on lunch. Their lunches cost the same amount, and they used a $4 off coupon. Determine the cost of each lunch.

Solve each equation. Check your solution.

1. $4(x + 8) = 44$	**2.** $7(x + 8) = 49$	**3.** $-2(x + 4) = 18$

Solve each equation. Check your solution.

4. $10(x - 5) = -80$	**5.** $-5(x - 10) = -35$	**6.** $-9(x - 4) = 81$

Solve each inequality. Graph the solution set on a number line.

1. -6x > 66
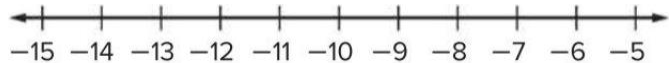
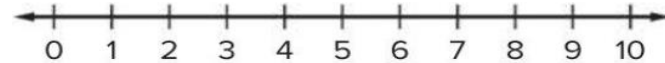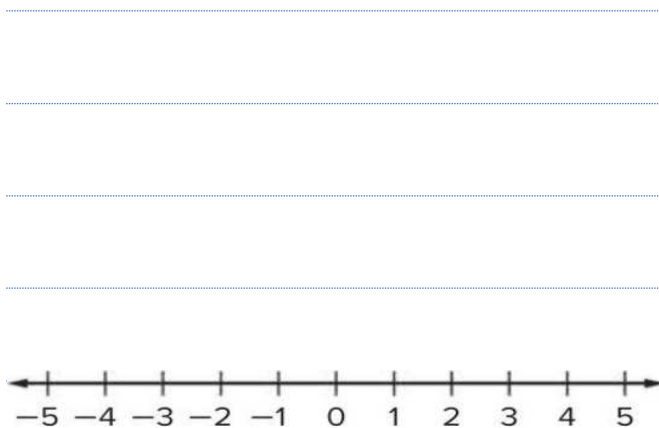**2.** -12 ≤ -3x
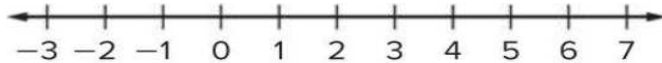
3. -4x ≥ -36

Solve each inequality. Graph the solution set on a number line.

4. $3 > -0.4x$

5. $-2.2x \leq -6.6$

6. $\dfrac{x}{-8} > 2$

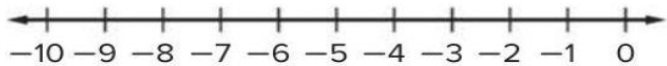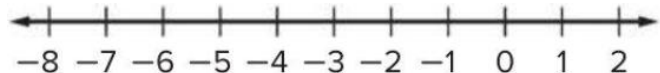Solve each inequality. Graph the solution set on a number line.

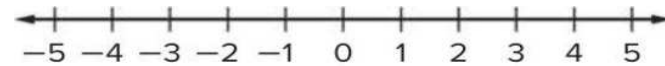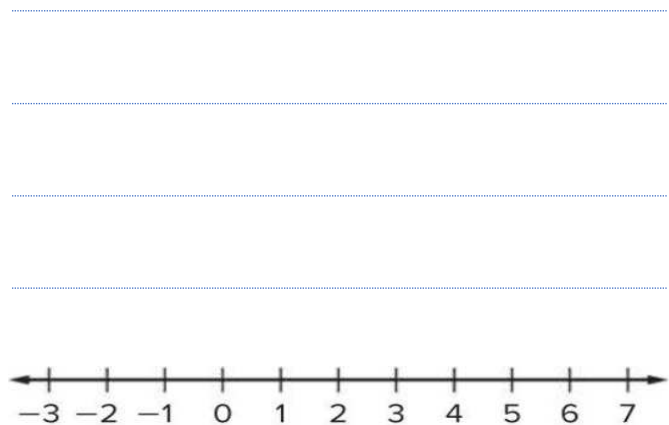|		
1. -3x − 3 > 12	**2.** -4 ≤ 4x + 8	**3.** 6.5x − 11.3 ≤ 8.2

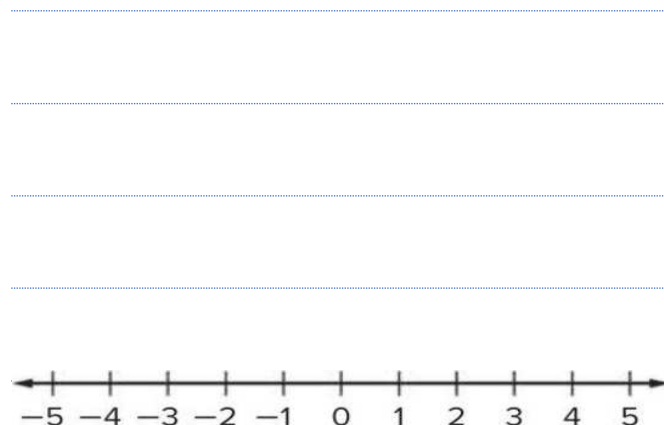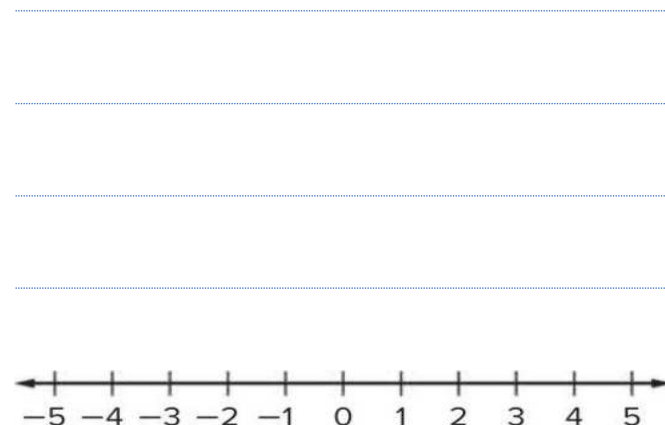Solve each inequality. Graph the solution set on a number line.

4. -2.45x + 3.2 < -6.6

5. $\frac{1}{2}x - \frac{1}{4} \leq \frac{5}{8}$

6. $\frac{x}{10} + \frac{1}{4} \geq \frac{1}{5}$

3. Refer to the diagram below. Identify three pairs of vertical angles. Name all the angles that are adjacent to ∠10
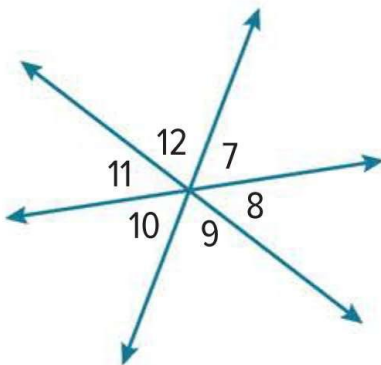
4. Identify three pairs of vertical angles. Name all the angles that are adjacent to ∠3.
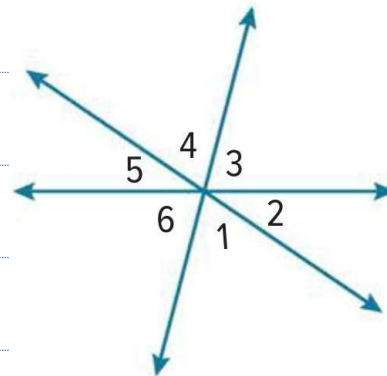
5. Write and solve an equation to find the value of x.

115°

$(2x + 5)°$
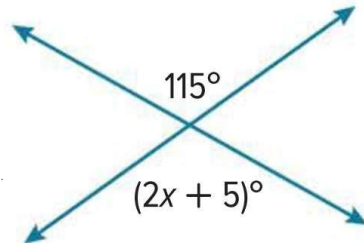
6. Write and solve an equation to find the value of x.
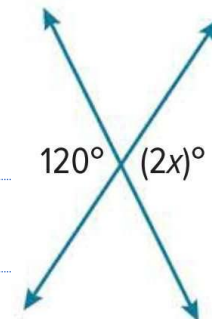
120° $(2x)°$

Solve each inequality. Graph the solution set on a number line.

1. $x + 5 < 7$	**2.** $1 > x + 6$	**3.** $x + 8 \geq 14$
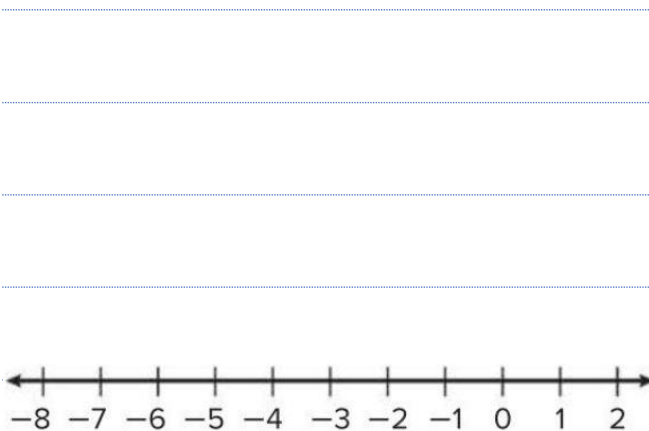
Solve each inequality. Graph the solution set on a number line.

4. $5 \leq x + 12$

5. $x + 5.4 < -1.6$

6. $x + 7.5 > -2.5$

Solve each problem by first writing an inequality.

1. Gabe went to the amusement park with $40 to spend. His ticket cost $26.50. Determine how much Gabe can spend on souvenirs and snacks. Then interpret the solution.
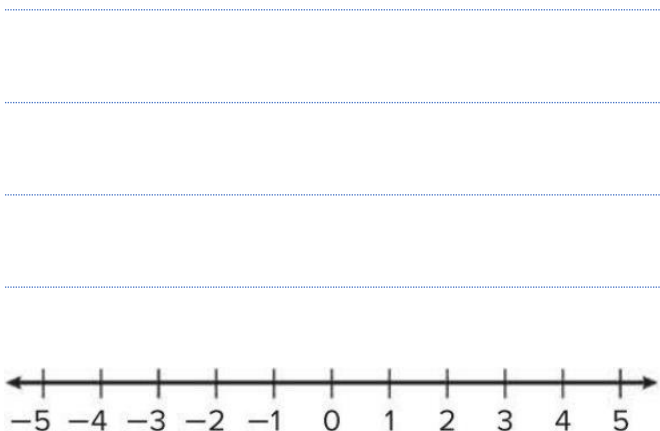
2. Drew practices piano at least 45 minutes per day. He has already practiced 18.5 minutes today. Determine how much longer he will have to practice. Then interpret the solution.

Solve each problem by first writing an inequality.

3. dolphin is swimming at a depth of -50 feet and then ascends a certain number of feet to a depth above -35 feet. Determine the number of feet the dolphin ascended. Then interpret the solution.

4. Elena's account balance with her parents is -$5.50. she adds a certain amount of money to her balance by mowing the lawn. Elena now has an account balance less than $20. Determine a possible amount she earned mowing the lawn. Then interpret the solution.

Part (3)

3 main questions

(6-8) Marks per main question

FRQ

Simplify each expression. For Exercises 1 – 4, write your answer in factored form.

1. 3(x + 4) + 5x	**2.** −4(x + 1) + 6x	**3.** −5(2x − 6) + 25x

Simplify each expression. For Exercises 1 – 4, write your answer in factored form.

4. $2(-8x - 3) + 18x$

5. $\frac{1}{6}x + \frac{3}{4}\left(\frac{1}{2}x - 4\right)$

6. $\frac{2}{3}\left(6x - \frac{1}{6}\right) + 3x$

Subtract.

4. $(8x + 9) - (6x - 2)$	**5.** $(3x - 4) - (x - 5)$	**6.** $(3x - 4) - (x - 5)$

Subtract.

7. $(-7x - 14) - (x - 5)$	8. $(-7x - 14) - (x - 5)$	9. $\left(\frac{3}{5}x + \frac{3}{4}\right) - \left(\frac{1}{3}x - \frac{1}{8}\right)$

Solve each equation. Check your solution.

1. $4(x + 8) = 44$	**2.** $7(x + 8) = 49$	**3.** $-2(x + 4) = 18$

Solve each equation. Check your solution.

4. $10(x - 5) = -80$	**5.** $-5(x - 10) = -35$	**6.** $-9(x - 4) = 81$

Solve each equation. Check your solution.

7. $0.4(x - 7) = 18$	**8.** $-0.25(8 + x) = 14$	**9.** $-0.8(10 - x) = 36$