

Name: .....

Date: .....

Year: .....

Time: 15 mins

Score: ..... /10

**1. Solve each equation (5 marks):**

$2w + 4 = -6$	$2y - 4 = 8$
$-3y - 4 = -16$	$3x + 5x = 24$
$-3 = -4 + \frac{c}{3}$	

**2. Problem solving (5 marks):**

- a. A river club rents canoes for £15 per hour. Ahmad has £90 to spend.

Write and solve the equation to find how many hours he can rent a canoe.

- b. Dina has £25 to start with. She plans to save £5 each week.

Solve the equation  $25 + 5w = 150$  to find how long it will take her to save £150.

## Answers

1. Solve each equation (5 marks):

$2w + 4 = -6$ $w = -5$	$2y - 4 = 8$ $y = 6$
$-3y - 4 = -16$ $y = -4$	$3x + 5x = 24$ $x = 3$
$-3 = -4 + \frac{c}{3}$ $c = 3$	

2. Problem solving (5 marks):

a. A river club rents canoes for £15 per hour. Ahmad has £90 to spend.

Write and solve the equation to find how many hours he can rent a canoe.

$$15x = 90$$
$$x = 6$$

So 6 hours

b. Dina has £25 to start with. She plans to save £5 each week.

Solve the equation  $25 + 5w = 150$  to find how long it will take her to save £150.

$$25 + 5w = 150$$
$$5w = 125$$
$$w = 25$$

So 25 weeks