Changing the subject: the subject appears twice

Exit ticket ANSWERS Name _____

1 Make x the subject of $ax + 4x = 9$

$x = \frac{9}{a + 4}$

2 Make x the subject of $px + 3 = 5x + 11$

$x = \frac{8}{p - 5}$

3 Make x the subject of $kx + 2 = 10 - 3x$

$x = \frac{8}{k + 3}$

The Maths Habit

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Exit ticket # Changing the subject: the subject appears twice

NEXT LESSON

1 **Make x the subject of $ax + 4x = 9$**

$x = \frac{9}{a + 4}$

TESTS Taking x out as a factor, then dividing by the bracket

LOOK FOR

$x = \frac{9}{4a}$ read ax + 4x as 4ax

$x = \frac{9}{a} - 4$ divided by a, then took 4 away

FIX IT

Make x the subject of $bx + 6x = 5$

$x = \frac{5}{b + 6}$

2 **Make x the subject of $px + 3 = 5x + 11$**

$x = \frac{8}{p - 5}$

TESTS Gathering the x terms on one side, the numbers on the other

LOOK FOR

$x = \frac{14}{p - 5}$ added the 3 to the 11

$x = \frac{8}{p + 5}$ added 5x instead of taking it away

FIX IT

Make x the subject of $mx + 1 = 4x + 7$

$x = \frac{6}{m - 4}$

3 **Make x the subject of $kx + 2 = 10 - 3x$**

$x = \frac{8}{k + 3}$

TESTS Gathering an x term from the other side, then the whole method

LOOK FOR

$x = \frac{8}{k - 3}$ took 3x away instead of adding it

$x = \frac{12}{k + 3}$ added the 2 to the 10

FIX IT

Make x the subject of $ax + 5 = 9 - 2x$

$x = \frac{4}{a + 2}$