Doing formulae and equations in stages

1. a = 4

   a^2 = [1 mark]

   $2a^2$ = [1 mark]

   $2a^2 + 5$ = [1 mark]

2. b = 10

   b^2 = [1 mark]

   $3b^2$ = [1 mark]

   $3b^2 - 10$ = [1 mark]

3. c = -2

   c^2 = [1 mark]

   $5c^2$ = [1 mark]

   $5c^2 - 8$ = [1 mark]

4. d = -3.5

   d^2 = [1 mark]

   $2.4d^2$ = [1 mark]

   $2.4c^2 + 8.7$ = [1 mark]

5. y = 3

$$\frac{2}{y+1} = \frac{2}{+1} = \frac{2}{\quad} =$$

6. e = 11

$$\frac{2e+2}{e-3} = \frac{+2}{-3} = \frac{\quad}{\quad} =$$

7. f = -3.5

$$\frac{4f+8}{f+0.5} = \frac{+8}{+0.5} = \frac{\quad}{\quad} =$$

8. Solve $2x = 14$

$x = \frac{14}{\quad} =$

9. Solve $2x = 15$

$x = \frac{15}{\quad} =$

Use a calculator and give your answers to 2 decimal places:

10. Solve $3.917x = 14.581$

$x = \frac{14.581}{\quad} =$

11. Solve $873.9x = 134.6$

$x = \frac{\quad}{\quad} =$

12. Solve $4.83x + 1 = 25.9$

$4.83x = \quad =$

$x = \frac{\quad}{\quad} =$

13. Solve $5.2x + 2.41 = 63.87$

$5.2x = \quad =$

$x = \frac{\quad}{\quad} =$

14. Solve $6.08x - 13.3 = 47.3$

$6.08x =$ $=$

$x = \frac{\quad}{\quad} =$

15. Solve $0.87x - 1.25 = 7.14$

$0.87x =$ $=$

$x = \frac{\quad}{\quad} =$

16. Solve $2x + 1 = x + 4$

$2x = x +$

$x =$

17. Solve $5x + 1 = 2x + 13$

$5x = 2x +$

$3x =$

$x = \frac{\quad}{\quad} =$

18. Solve $10x - 5 = 2x + 27$

$10x = 2x +$

$8x =$

$x = \frac{\quad}{\quad} =$