

# Homework 18

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Due in:

1. The area of a rectangle is  $32\text{cm}^2$ . The base and height are whole numbers. What is the largest perimeter possible?

3.  $\frac{3}{4} + \frac{2}{5}$

2.  $217 \times 33$  (you must show working)

4.  $\frac{3}{7} \times \frac{2}{3}$

5.  $\frac{3}{5} \div \frac{1}{3}$

8. If 6 numbers have a mean of 7, and five of the numbers are 5, 4, 11, 7, and 6, what is the sixth number?

6.  $+6 \times -2$

9. Calculate the mean from this frequency table.

x	5	6	7	8
f	3	7	4	4
fx				

7. 36 pupils are asked for their favourite football team and 35 say Chelsea. What angle would this be on a pie chart?

10. solve  $5x + 2 = 34$

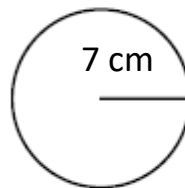
11. Solve  $4(2x + 1) = 34$

14. What is the probability of rolling an odd number on a fair 6 sided dice?

12. Make  $b$  the subject

$$a = \frac{4b + 3}{6}$$

15. What is the area of this circle?

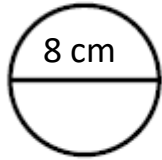


13. Expand and simplify;

$$(x + 7)(x + 4)$$

16. Write 20 as a percentage of 80.

17. What is the circumference of this circle?



19.  $5.2 \times 6$  (show working)

18. After an increase of 25%, the shirt now cost £75, what was its original price?

20. What is  $10^4$ ?

Total:

