

## S2 Homework 11

**No calculator allowed!!**

- 1)  $24.9 + 9.67$       2)  $6 - 3.56$       3)  $0.487 \times 5$       4)  $12.72 \div 4$

**Revision of S1 work**

- 5) Simplify these expressions if possible: -

- a)  $3x + 4y + 4x + 6y$       b)  $7a + 8b - a + 3b$       c)  $5c + 6d + 7c + 8d$   
 d)  $9f - 5g + 4h - 4j$

- 6) Solve these equations: -

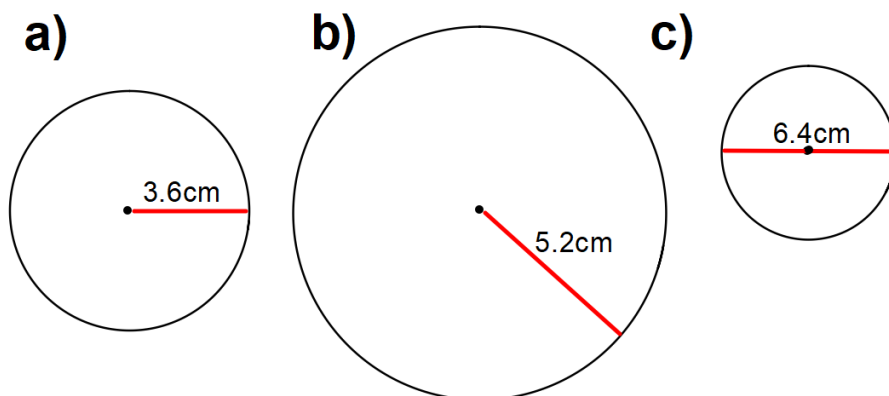
- a)  $x + 4 = 24$       b)  $5x = 45$       c)  $4x + 6 = 22$       d)  $6x - 6 = 54$   
 e)  $8x + 4 = 5x + 16$

- 7) If  $a = 3$  and  $b = 4$ , evaluate: -

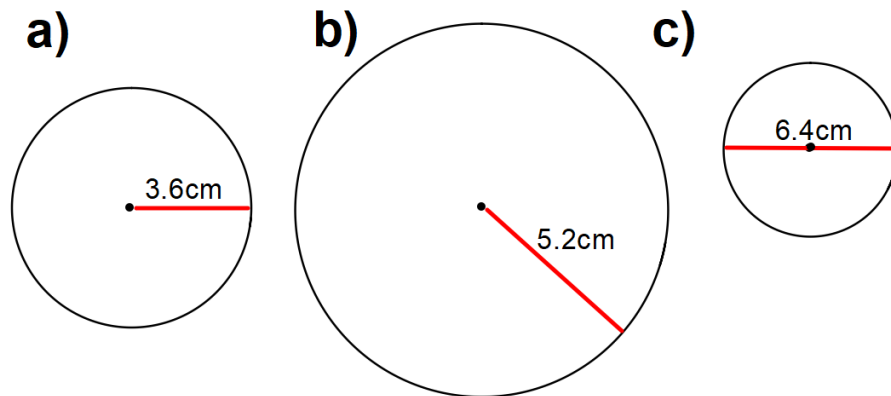
- a)  $6a + 7b$       b)  $a^2 + b^2$       c)  $ab + 11$       d)  $4a^2 - 2b^2$

**S2 work**

- 8) Calculate the area of these circles. Round your answer to one decimal place.



- 9) Calculate the circumference of these circles. Round your answer to one decimal place.



- 10) Write these numbers in standard form: -

a) 231 000 000    b) 74 000 000 000 000    c) 0.000 354    d) 0.000 000 017

- 11) Write these numbers in "ordinary" form: -

a)  $1.26 \times 10^5$     b)  $1.28 \times 10^{-5}$     c)  $8.9 \times 10^7$     d)  $5.8 \times 10^{-3}$

### UK Junior Maths Challenge Question

One half of one third of one quarter of one fifth of a number is 2.  
What is the number?

A 240

B 120

C 60

D  $\frac{1}{120}$

E  $\frac{1}{240}$