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Level F Homework 1

1. Calculate:

- (a)  $-5+3$                       (b)  $-8-5$   
(c)  $-8+(-9)$                     (d)  $-3-(-12)$   
(e)  $14+(-29)$                     (e)  $-15-(-50)$

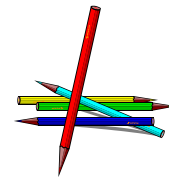
2. Calculate:

- (a)  $10 \times (10-15)$                       (b)  $((-4)-11) \div 3$   
(c)  $((-10)+4) \div (-3)$                     (d)  $(-3)^3$

3. Work out:

- (a)  $0.09 \times 0.5$                       (b)  $34.1 - 7.287 - 15.02$                       (c)  $9 \times (-2.6)$   
(d)  $(-0.8) \times (-30)$                       (d)  $(-4.5) \div (-300)$                       (d)  $5.2 \times 3000$

4. A colouring pencil costs £0.09. What is the cost of:-

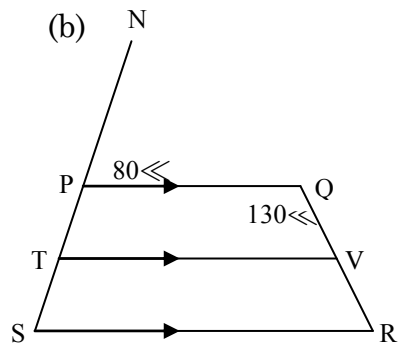
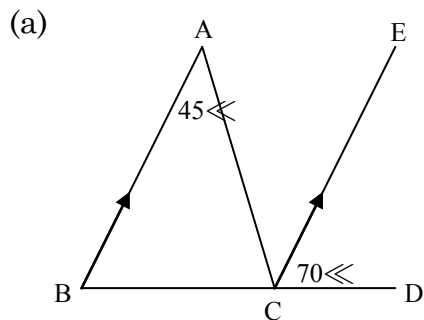


- (a) 8 pencils                      (b) 300 pencils                      (c) 2000 pencils ?



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Level F Homework 2

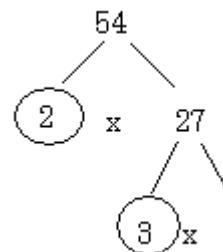
1. Copy these diagrams and fill in all the angles.



2. Find the highest common factor for each of the following: -

- (a) 12 and 20                      (b) 13 and 26                      (c) 24 and 36

3. (a) Copy and complete the following factor tree:



(b) Use a similar method to find the prime decomposition of the following:

- (i) 36                      (ii) 50                      (iii) 98

4. Write the following in scientific notation:

- (a) 800      (b) 109      (c) 2 million  
 (d) 0.002      (e) *onetenth*      (f) 0.000521

5. Write each of the following in full:

- (a)  $1.7 \times 10^3$       (b)  $5.04 \times 10^5$       (c)  $8.2 \times 10^{-3}$       (d)  $1.0 \times 10^{-4}$



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Level F Homework 3

1. Calculate the following given that  $x = 3$ ,  $y = -5$ :

(a)  $x + 2y$

(b)  $x^2 - y + (-5x)$

(c)  $-(y^2)$

2. Remove the brackets:

(a)  $3m(2m - 3)$

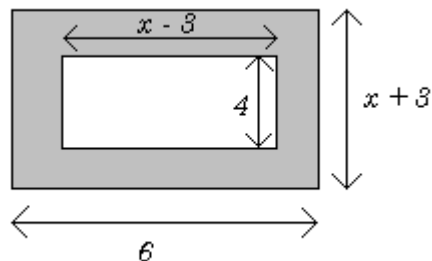
(b)  $-y(2x - 3y + 2)$

3. Remove the brackets and Simplify:

(a)  $3(x + 4) - 4x(3x - 3)$

(b)  $7q - 3(3 - 3q)$

4. Find the shaded area in terms of  $x$  :



5. Factorise:

(a)  $6a - 18$

(b)  $4q^2 + 12qr$

(c)  $6kp - 4k^2 + 2p^2$