

Year 8 Mock Exam paper 1 hour.

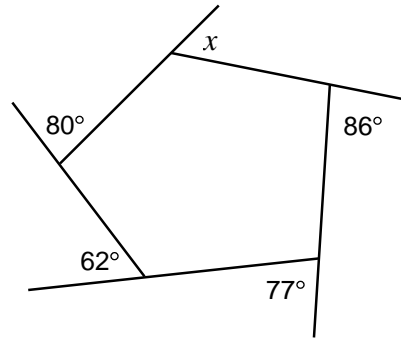
1a) Find 30% of 520

b) 40% of 520

c) $\frac{3}{5}$ of 20 metres

d) $\frac{5}{9}$ of 45Kg

2) Find the size of the angle x



3) Work out the value of:

a) 5^3

b) 7^0

c) 6^{-2}

d) 10^3

4) Work out:

a) $\frac{2}{3} \times \frac{1}{5}$

b) $2\frac{3}{5} + 1\frac{3}{4}$

c) $\frac{3}{4} - \frac{1}{3}$

d) $\frac{15}{26} \div \frac{5}{13}$

5) Write in index form.

a) $3^5 \times 3^2$

b) $b^3 \times b^2$

c) $7^9 \div 7^3$

d) $6^7 \div 6^7$

e) $a^5 \div a^7$

f) $10^8 \times 10^{-2}$

6) Write in Standard Form

a) 25000

b) 0.0069

c) 0.08503

d) 4000

7) Write the following correct to 2 decimal places.

a) 35.39

b) 0.0357

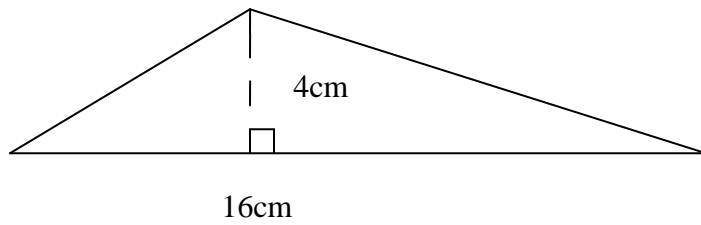
Write the following correct to 3 significant figures.

c) 61.382

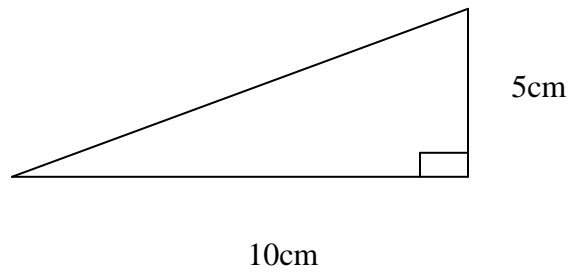
d) 0.07249

8) Work out the area of the following shapes. (Drawings not to scale)

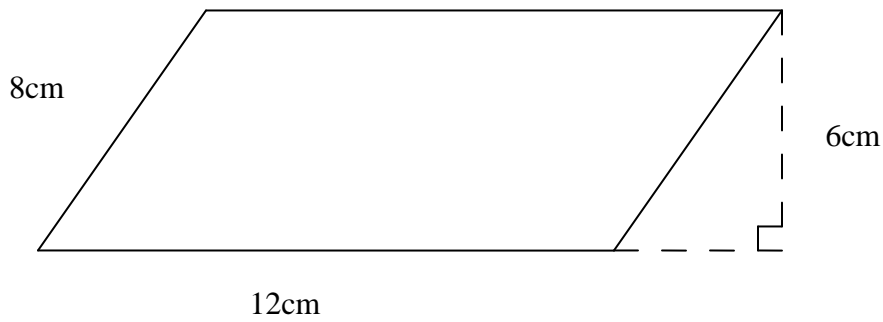
a)



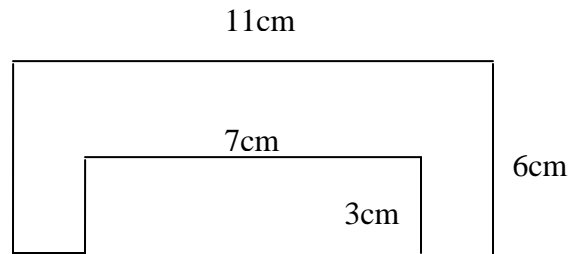
b)



c)



d)



9) Change to decimals:

a) $\frac{4}{5}$

b) $\frac{2}{3}$

c) $\frac{2}{5}$

Change to Percentages

d) $\frac{4}{5}$

e) $\frac{2}{3}$

f) $\frac{2}{5}$

10) Write the following in order of size, smallest to largest:

72% $\frac{1}{3}$ $\frac{2}{5}$ 0.7 45%

11a) Split £45 in the ratio 4:5

b) Find the value of x

$$x : 9 = 3 : 5$$

12) John has two dice, one large and one small. What is the probability that at least one of the dice will be showing a 2 after John has rolled them.

13) The probability that John is picked for the football team is $\frac{7}{10}$ what is the probability he is not picked?

14) This diagram shows part of a regular polygon. Find the number of sides of this polygon using the angle given in the diagram. .

