- 1. 209 + 376 + 523 =
- 2. 6.24 2.35 =
- 3. If I give away 7 sweets and have 16 left, how many did I start with?
- 4. If I divide 56 by a certain number my answer is 8. What number did I divide by?
- 5. If x + 19 = 32, what is the value of x?
- 6. How many minutes in 4 hours?
- 7. Write 278 to the nearest 10.
- 8. Find the mean (average) of 10, 8, 18, 12.
- 9. 3(14-9) =
- 10.  $\frac{5}{8} + \frac{1}{2} =$
- 11.  $\frac{7}{9} \div \frac{2}{3} =$
- 12. Complete the table

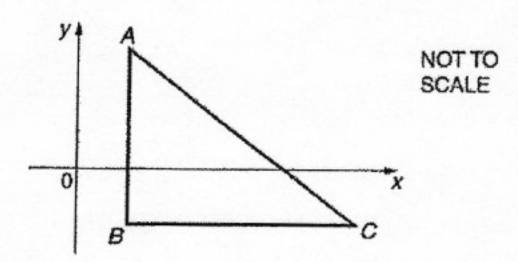
Fraction	Decimal	Percentage
3/4		
	0.2	
		80

- 13. Calculate 527 ÷ 4 to the nearest whole number.
- 14. List the prime factors of 30
- 15.  $\sqrt{81}$  =
- 16. If a = 6 and b = 3, find  $a^2b$
- 17. How long is it between 11.20 am and 1.15 pm?
- 18. Calculate the square of 0.4
- 19. Write two more terms in the sequence: 2, 3, 5, 8, 12
- 20. Simplify  $x^6 \div x^2$
- 21. Factorise ab + bc
- 22. Multiply out (x + 3)(x + 5)
- 23. Write 85:55 in its simplest form.
- 24. A circle has a diameter of 6cm, what is its area to the nearest cm?
- 25. If a car travels 120 km in 3 hours, how far will it travel in 4 hrs at the same speed?
- 26. What is the nth term of the sequence 3, 6, 9, 12, 15?
- 27. If the perimeter of the shape below is 14 m, what are the values of x and y?

13. Giv	en the equation $v = u + at$ :	
(a)	Find $v$ when $u = 10$ , $a = 3$ and $t = 8$ .	
(b)	Find v when $u = 30$ , $a = -2$ and $t = 7$ .	(2
		(2
(c)	Find a when $u = 6$ , $v = 54$ and $t = 16$ .	
		(3
14.		[7
	Itiply out the brackets $t(3t^2 + 8)$	
		(2)
b)Re	arrange these formulae to make x the subject.	
i) .	y = 3x + 4	
ii)	5(x+y)=7y-9	(2)
,		
		(3) [7]

9. The diagram below shows a triangle ABC.

Side BC is parallel to the x-axis and side BA is parallel to the y-axis. The coordinates of B are (2, -3).



(i) BC is 12 units long. Write down the coordinates of C.

(ii) The coordinates of A are (2, 7). Find the area of triangle ABC.

.....(3)

[4]

10. (i) Write 30 as a product of prime factors

(ii) Write 24 as a product of prime factors

(iii) What is the Highest Common Factor of 24 and 30?

[5]

5.	5. When Brian, Mike and John wrote a textbook, they agreed to share any money they made in the ratio 15:8:7.					
	(a)In the first year they made £3600 from the sale of the book.					
	How much was John's share?					
	(b)	In the second year, Mike's share was £1600.		(2)		
		How much was Brian's share?				
6.			•••••••••••••••••••••••••••••••••••••••	(2) [4]		
-						
		$\frac{1}{h}$ $\frac{1}{m}$				
		In the diagram above, which angle is				
		(i) vertically opposite to angle e,				
		(ii) alternate to angle d,		(1)		
				(1)		
	(	(iii) corresponding to angle h.		(1)		
				[3]		