

### 1) June 2010 V1

p is the largest prime number between 50 and 100. q is the smallest prime number between 50 and 100.

Calculate the value of p-q



# 2) June 2011 V2

Which of the following numbers are irrational?

$$\frac{2}{3}$$

$$\sqrt{36}$$

$$\frac{2}{3}$$
  $\sqrt{36}$   $\sqrt{3} + \sqrt{6}$   $\pi$ 

$$0.75 48\% 8^{\frac{1}{3}}$$

$$8^{\frac{1}{3}}$$

[2]

3) November 2011 V3

2

211

214

216

From the list of numbers, find

(a) a prime number,

Answer(a)

(b) a cube number.

Answer(b)

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### 4) November 2012 V2

11 List all the **prime numbers** which satisfy this inequality.

$$16 < 2x - 5 < 48$$

American	[3]
Answer	 [5]

### 5) June 2013 V3

- 11 The sum of the prime numbers less than 8 is equal to 17.
  - (a) Find the sum of the prime numbers less than 21.

(b) The sum of the prime numbers less than x is 58.

Find an integer value for x



$$Answer(b) x = \dots [2]$$

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# 6) June 2016 V2 11 12 13 14 15 16 10 5 From the list of numbers, write down (a) the square numbers, **(b)** a prime factor of 99. [1] 7) June 2016 V3 Find the cube root of 4913. 1 uuu. Q8 Maths.com

8) Novei	mber	2015 V3							
5			11	12	13	14	15	16	
	Fro	m the list of	numbers, w	vrite down					
	(a)	the factors	of 60,						
	a)					An	swer(a) ······		[1]
	(D)	the prime r	numbers.			An	swer(b)	*	[1]
9) Nove	mbe	r 2014 V2							
15	(a)	Write 90 as	a product o	f prime facto	ors.				
						Ans	wer(a)		[2]
	(b)	Find the lov	vest commo	on multiple of	f 90 and 105.				
						Ans	wer(b)		[2]
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10) June 2015 V1		
17 (a) Write 30 as a product of its prime factors.		
	Answer(a)	[2]
<b>(b)</b> Find the lowest common multiple (LCM) of 30 and 45.		
	Answer(b)	[2]
11) November 2015 V1		
Work out the highest common factor (HCF) of 36 and 90.		
	Answer	[2]
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## 12) March 2015 V2

2 Find the lowest common multiple (LCM) of 24 and 32.



13) M	arch 2	2016 V2	
13) 1110	210112	2010 VZ	-
12	( )	W 201	,
13	(a)	Write 201	C

2016 as the product of prime factors.



(b) Write 2016 in standard form.

# 14) June 2016 V1

Find the lowest common multiple (LCM) of 36 and 48.

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### 15) June 2016 V3

10 Find the highest common factor (HCF) of 56 and 70.

.....[2]

### 15) November 2020 V2

2 Insert one pair of brackets to make this calculation correct.

$$7 - 5 - 3 + 4 = 9$$

 $x = \dots$  [2]

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