Mathematica Centrum Together, let's shape the mathematicians of the future

PYTHAGORAS PREPARATORY TEST 2016

1.	The base of a pyra	ich of the following is false? 139 > 118 B) 353 > 352 C) 356 < 488 D) 637 < 899 E) 400 < 398 at is the difference between 7 x 12 and 72 ÷ 8? 77 B) 81 C) 74 D) 75 E) 76 eeks and 8 days is more than 64 days B) 63 days C) 67 days D) 65 days E) 66 days e ten's digit of the result of 428 - 348 is 8 B) 9 C) 7 D) 5 E) 6 u go to the gym 5 times each week. Which of the following is closest to the number of times you go to the gym over a period of 6 months? 200 times B) 80 times C) 130 times D) 150 times E) 110 times e blocks have been glued together, as shown he diagram. How many blocks have exactly ices that have glue on them?			
	A) 5	B) 6	C) 7	D) 8	E) 9
2.	Which of the follow	ving is false?			
	A) 139 > 118	B) 353 > 352	C) 356 < 488	D) 637 < 899	E) 400 < 398
3.	What is the differer	nce between 7 x 12	and 72 ÷ 8?		
	A) 77	B) 81	C) 74	D) 75	E) 76
4.	8 weeks and 8 day	s is more than			
	A) 64 days	B) 63 days	C) 67 days	D) 65 days	E) 66 days
5.	The ten's digit of th	ne result of 428 - 348	3 is		
	A) 8	B) 9	C) 7	D) 5	E) 6
6.	You go to the gym 5 times each week. Which of the following is closest to the number of times you will go to the gym over a period of 6 months?				
	A) 200 times	B) 80 times	C) 130 times	D) 150 times	E) 110 times
7.	in the diagram. Ho	line blocks have been glued together, as shown the diagram. How many blocks have exactly faces that have glue on them?			
	A) 0 D) 3	B) 1 E) 4	C) 2		
8.		old and Mathilda Y eir ages 3 years ago			
	A) X + Y - 3	B) X + Y - 6	C) X + Y - 2	D) X + Y - 4	E) X + Y
9.	How many 2-digit i	natural numbers are	there?		
	A) 80	B) 100	C) 89	D) 90	E) 91

						_
10.	Which	expression	vields	a sum	that is	even?

۸.	~ 4		40		~~
A)	31	+	18	+	20

11. Mathilda rolls a dice 30 times. About how many times should she expect to get a 5?

- A) 4 times
- B) 6 times
- C) 10 times

- D) 8 times
- E) 5 times

Х	9	13	7
3	?	39	21
?	36	?	?
10	90	130	70

12. Which number, represented by a ?, has a value closest to 30?

- A) 36
- B) 52
- C) 28
- D) 27
- E) 39

- A) 610
- B) 505
- C) 520
- D) 500
- E) 510

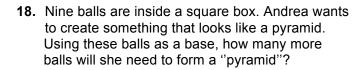
- A) 215 cm
- B) 225 cm
- C) 205 cm
- D) 200 cm
- E) 212 cm

- A) 4
- B) 2
- C) 3
- D) 1
- E) 5

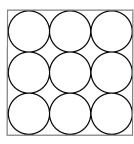
- A) 10
- B) 11
- C) 9
- D) 12
- E) 8

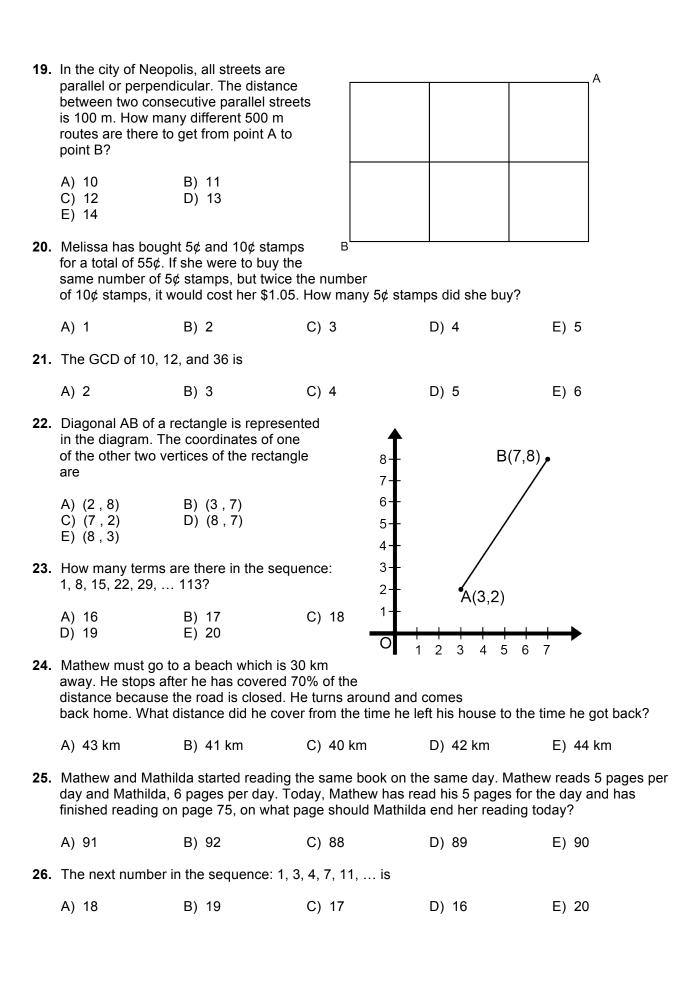
17. If N x N =
$$1 + 2 + 3 + 4 + 3 + 2 + 1$$
, then $10 \times N$ is equal to

- A) 50
- B) 160
- C) 70
- D) 40
- E) 80



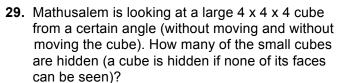
- A) 4
- B) 5
- C) 2
- D) 3
- E) 1



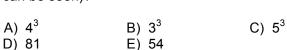


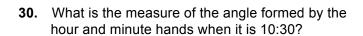
27.	The difference betw	veen two positive pr	ime numbers is 5. V	Vhat is their sum?	
	A) 10	B) 6	C) 8	D) 7	E) 9
28	Which of the follow	ing has a value clos	est to the product o	f 999 v 1 000 v 1 00	12

B) 10⁹ C) 10⁸

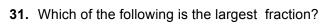


A) 10⁶

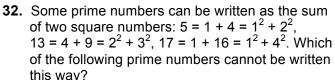


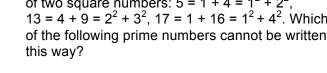




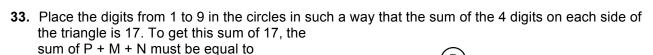












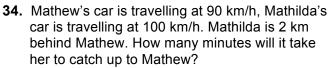
C) 61

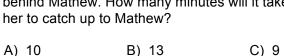
C) 5

C) 135°

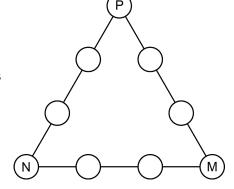
C) 17/18











D) 10¹⁰

E) 10^7