Cambridge Primary Progression Test

Question paper



45 minutes

Mathematics Paper 2

Stage 6

Name

Additional materials:

Ruler Calculator Protractor Tracing Paper

READ THESE INSTRUCTIONS FIRST

Answer all questions in the spaces provided on the question paper.

You should show all your working on the question paper.

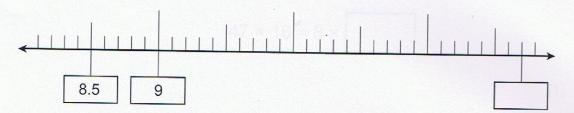
The number of marks is given in brackets [] at the end of each question or part question.

The total number of marks for this paper is 40.

For Teach	ner's Use
Page	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
Total	
11 12 13 14 15 16 17	

Here is part of a number line.

Teacher's Use



What number goes in the empty box?

Here are four numbers.

40 004

400 400

400 004 400 040

Put a ring round the number that is one hundred times bigger than four thousand and four.

[1]

3 Here is part of a number square.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

Here is another part of the same number square. Put a ring round the largest number that is a multiple of both 2 and 9

81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

4 Complete the following number sentence.

For Teacher's Use

[1]

5 Here is a place value chart showing the number 82

10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

Here is a larger place value chart.

Shade it to represent the number $301 \frac{3}{100}$

1000	2000	3000	4000	5000	6000	7000	8000	9000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009

6 Here are some statements about odd and even numbers.

Tick (\checkmark) the correct box next to each statement.

For
Teacher's
Use

To A Continue to the Continue				
	True	Not true		
odd × odd = odd				
odd + odd = even	INCE NOT BROW	nt to the nea		
odd – odd = odd				

[1]

7 Cesar has 10 cubes in a bag. Each cube is either red or blue.

Ma

Sta

Nar

Ad

He takes a cube without looking. It is **equally** likely that he will take a red cube or a blue cube.

How many red cubes are in the bag?

red cubes [1]

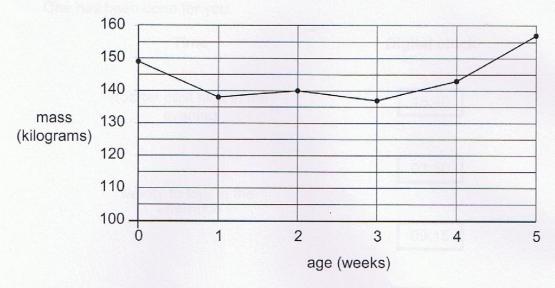
8 How much less than 10 000 is 99 x 101?

.....[1]

9	Here are four number cards.			
	0 17	27	37	
	Isabella chooses two different cards. She adds the numbers together and roun Her answer is 50	nds her answer to the near	rest 10	
	Which two number cards did she choose	∍?		
				[1]
10	What is half a litre in millilitres?	ige (weeks) white the 2 weeks aid?		
			ml	[1]

For Teacher's Use 11 Here is a graph showing the mass of a baby elephant.

For Teacher's Use



(a) What was the mass of the elephant when it was 2 weeks old?

ka	[1]
 9	F.1

(b) When did the elephant grow the fastest? Put a ring round the answer.

0 to 1 week 1 to 2 weeks 2 to 3 weeks 3 to 4 weeks 4 to 5 weeks

12 Match the times to the digital clocks. One has been done for you.

For Teacher's Use

Time	Digital clock
quarter past nine in the evening	15:40
twenty to four in the	03:30
afternoon	09:15
twenty past eight in the morning	08:20
# We to a killowing leads	21:15
half past three in the afternoon	15:30
	[2]

13 Here are five examples of calculation strategies. Some are correct and some are wrong.

Mark each example with a tick (✓) if it is correct and a cross (x) if it is wrong.

Calculation	Strategy	√ or ×
5.7 + 3.9	5.7 + 4 - 0.1	
13.1 + 2.8	13.1 + 3 + 0.8	
6.8 – 4.9	6.8 - 5 + 0.1	
13.5 – 2.1	13.5 – 2 + 0.1	

[2]

AA	11000		41-	£	operation	-!
14	Here	are	INA	TOUR	operation	Sidne
1 -	11010	aic	UIV	IUUI	Operation	JIGHO.

– × ÷

For Teacher's Use

Write in the missing signs. The first one has been done for you.

$$4 \times 5 = 30 - 10$$

$$3 \bigcirc 2 > 15 (\div) 3$$

[2]

15 Erik knows the following facts.

$$90 \times 17 = 1530$$

$$7 \times 17 = 119$$

Show how he can use **these facts** to work out 83 × 17 You must show the method **and** the result.

[2]

16 Complete the table showing equivalent fractions and decimals. The first one has been done for you.

For Teacher's Use

Fraction	Decimal
$\frac{1}{2}$	0.5
3 5	
3 4	

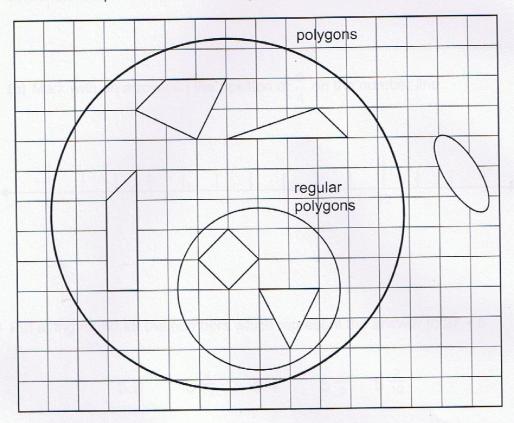
[2]

17 What is $\frac{7}{10}$ of 70?

18 Here is a diagram for sorting shapes. One shape is in the **wrong** place.

For Teacher's Use

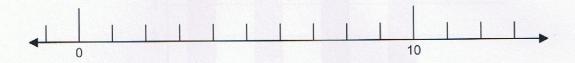
Shade the shape that is in the wrong place.



19 (a) Write $\frac{9}{4}$ as a mixed number.

For Teacher's Use

(b) Mark with an arrow (ψ) the position of $\frac{9}{4}$ on the number line.



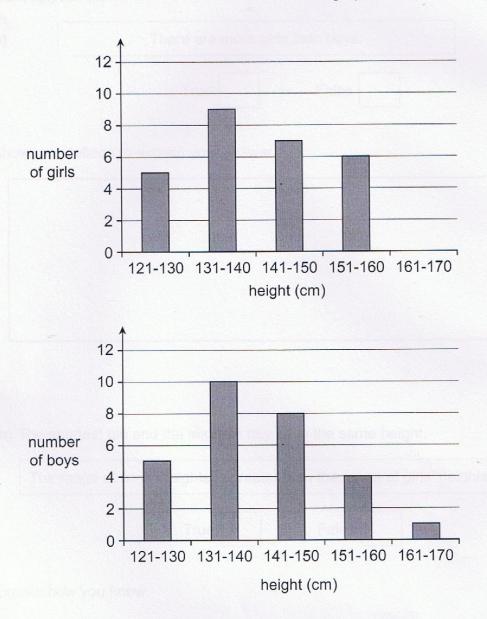
[1]

- 20 Put a ring round all the numbers which represent the answer to $27 \div 5$

- 5.2 $5\frac{4}{10}$ 5.4 $5\frac{2}{5}$ $5\frac{2}{10}$

21 A group of girls and boys were measured and their heights recorded to the nearest centimetre. The results are shown on the graphs.

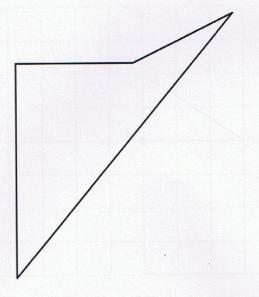
For Teacher's Use



a)	There are more girls than boys.
	True False
now calcula	ations to explain your answer.
Medium	the size of the emeters angle.
) The short	est girl and the shortest boy have the same height.
	est girl and the shortest boy have the same height. ge of boys' heights is greater than the range of girls' heights.
The ran	ge of boys' heights is greater than the range of girls' heights. True False
	ge of boys' heights is greater than the range of girls' heights. True False

For Teacher's Use 22 Here is a quadrilateral.

For Teacher's Use



(a) Measure the length of the longest side.

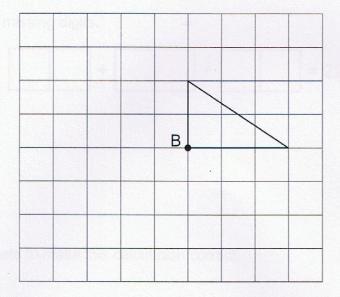
____ cm [1]

(b) Measure the size of the smallest angle.

° [1]

23 Here is a triangle on a grid.

For Teacher's Use



It is rotated about the point B through 90° clockwise.

Draw the new position of the triangle on the grid.

[1]

24 Here are four digit cards.

9	
0	

1		
	3	
	0	

2	

Use each digit card once to make the number closest to 30



25 Each missing digit in this sum is a 4 or an 8

Write in the missing digits.



For Teacher's Use

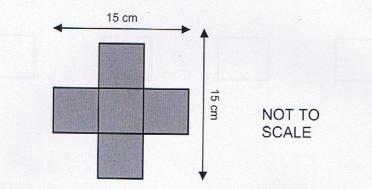
[1]

26 Put in brackets to make this calculation correct.

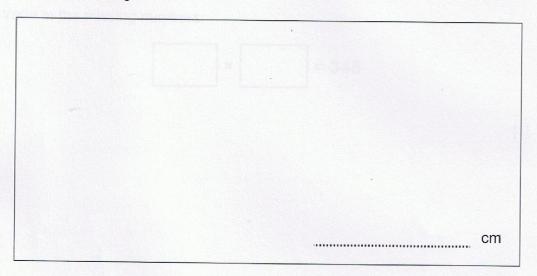
$$1.1 + 1.2 - 1.3 \times 1.4 = 1.4$$

27 This shape is made from five identical shaded squares.

For Teacher's Use



Find the **perimeter** of the shaded shape. Show your working.



[2]

28 What is the mean of these five numbers?

5.2 1.9 3.4 2.1 2.4

.....[1]

	[1]
	itar's less
Two whole numbers are each between 10 and 30 Their product is 345	Ha k
Write in the missing numbers.	
Name of the second	
× = 345	
Adortion in translation (1) Bases	
	[1]
You shall do a strong theoret on the operator pulsary.	

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