Year 5

Prepare for NAPLAN

MANGAHIGH
westermann

Instructions

There are two tests available for each level – TEST 1 and TEST 2. TEST 1 is a pre-test, and TEST 2 can be used as a post-test.

1. Complete questions in TEST 1

2. Have students mark their own test using the answer sheet provided

3. For each incorrect answer in TEST 1, complete the suggested 'Mangahigh activity'

4. Login to Mangahigh and use the 'Browse all activities' option, and type in the title of the Mangahigh activity. Complete the activity and earn a minimum of Bronze medal.

5. Attempt TEST 2 when students have completed all relevant suggested activities.

Mangahigh NAPLAN series

Year 5

TEST 1

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YEAR 5 NUMERACY – TEST 1

1

You can calculate 896 − 462 by subtracting the hundreds, tens and ones.

$$
\begin{array}{r}
8\ 9\ 6 \\
-\ 4\ 6\ 2 \\
\hline
\end{array}
$$

Mangahigh activity: ***Add and subtract large numbers mentally***

2

I have **2 hundreds.**
I have **8 tens.**
I have **3 ones.**

What number am I?

328	382	238	283
☐	☐	☐	☐

Mangahigh activity: ***Recognise place value: hundreds, tens and units***

3

Calculate $10 \times 2 + 3 \times 2$.

Which of the following answers is correct?

80	20	26	23
☐	☐	☐	☐

Mangahigh activity: ***Relate addition to multiplication***

4

288 pencils are packed into boxes of 4
Samira works out that
4 x 50 = 200 and 4 x 22 = 88
How many boxes are needed?

72 ☐   84 ☐   74 ☐   82 ☐

*Mangahigh activity: **Divide***

5

There are 15 students in a class. 7 of them have black hair.
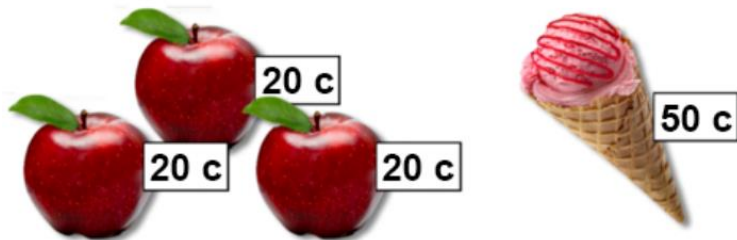What fraction of students **do not** have black hair?

$\frac{8}{15}$ ☐ $\frac{9}{15}$ ☐ $\frac{15}{8}$ ☐ $\frac{7}{15}$ ☐

*Mangahigh activity: **Use fractions***

6

David buys these things with this coin.

How much <u>change</u> does he get?

90c ☐ $1.10 ☐   70c ☐ $1.30 ☐

*Mangahigh activity: **Work with money***

7

Which cannot be shared equally between five people?

11 cakes   5 cakes   10 cakes   15 cakes

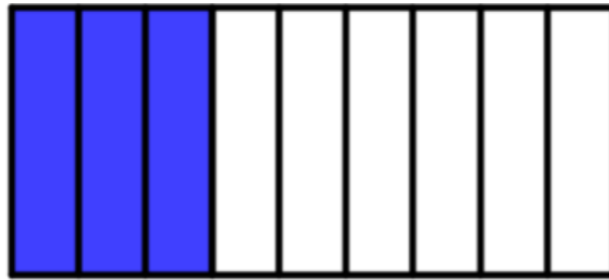☐   ☐   ☐   ☐

*Mangahigh activity: **Divide by 5***

8

The diagram shows $\frac{3}{9}$ of the rectangle shaded in blue.

What is another way of writing this fraction?

$\frac{1}{6}$ $\frac{1}{3}$ $\frac{5}{12}$ $\frac{4}{9}$

☐   ☐   ☐   ☐

*Mangahigh activity: **Identify equivalent fractions***

9

Joshua thinks of a number.
He works out one eighth of the number and gets 7.
What number did Joshua think of?

56   49   15   63

☐   ☐   ☐   ☐

*Mangahigh activity: **Find the fraction of an amount – simple examples***

10

There are 60 students in Year 7.

$\frac{5}{12}$ of the pupils prefer football to volleyball.

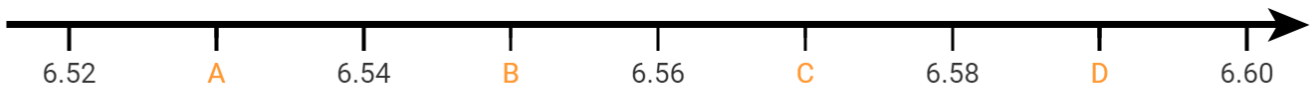Which **one** of the following shows many pupils prefer football?

25	15	20	35
☐	☐	☐	☐

*Mangahigh activity: **Find a fraction of an amount: standard examples***

11

The number 6.53 is bigger than 6.52 but smaller than 6.54. So, it belongs at 'A' on the number line.

Which **one** of the following letters shows where 6.55 belongs on the number line?

A	B	C	D
☐	☐	☐	☐

*Mangahigh activity: **Round decimals that have up to three decimal places***

12

I think of a number.
I multiply it by 1000.
The answer is 908000.
What number did I think of?

980	908	98	9080
☐	☐	☐	☐

*Mangahigh activity: **Mulitply and divide whole numbers by 10. 100 and 1000***

13

Chloe wants to buy a new sofa and TV.
The sofa she wants usually costs $620 but they are currently selling it for half price.
The TV she has chosen costs $250.
How much will they cost altogether?

$250	$550	$560	$350
☐	☐	☐	☐

Mangahigh activity: **Solve addition and subtraction problems**

14

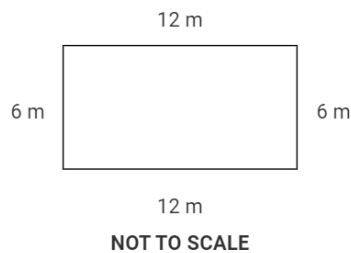Which one of the following gives the answer to 0.6 − 0.2 + 0.3?

0.3	0.5	0.9	0.7
☐	☐	☐	☐

Mangahigh activity: **Add and subtract simple decimals**
Add and subtract decimals

15

The rectangle below shows the shape and measurements of a garden.

12 m

6 m   6 m

12 m

NOT TO SCALE

Which **one** of the following shows the distance in metres around the edge of the garden?
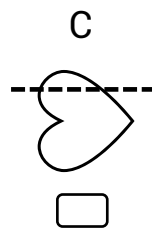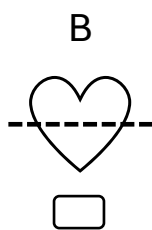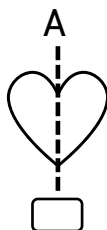
54cm^2	42cm^2	12cm^2	36cm^2
☐	☐	☐	☐

Mangahigh activity: **Solve word problems**

16
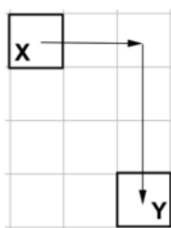
This shape has one line of symmetry. Find it.

A   B   C   D
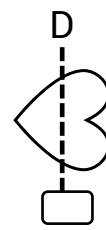
Mangahigh activity: **Identify lines of symmetry**
Identify and draw lines of symmetry

17

A man walks from square X to square Y. The path that he takes is shown by the arrows. Which of these describes the path taken by the man?

DOWN 3 squares
RIGHT 2 squares

RIGHT 2 squares
DOWN 3 squares

RIGHT 2 squares
DOWN 2 squares

Mangahigh activity: **Learn about position and direction**

18

Thomas went on holiday on Thursday 17th of November.
Seven days later, the date was Thursday ____ of November.
Which one of the following words correctly completes the sentence?

24th   11th   10th   23rd
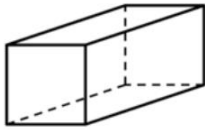
Mangahigh activity: **Work with calendars and dates**
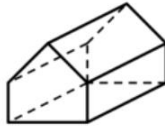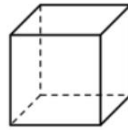**Use timetables and charts**

19

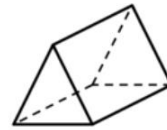## Which of these shapes has the least edges?

| A | B | C | D |

A ☐   B ☐   C ☐   D ☐
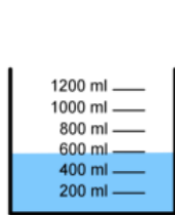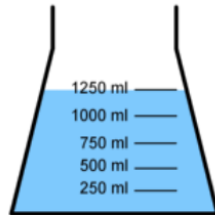
*Mangahigh activity: **Investigate faces, edges and vertices in 3D shapes,
Learn about more properties of 2D shapes, Sort and describe shapes***
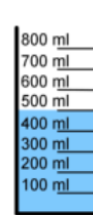
20

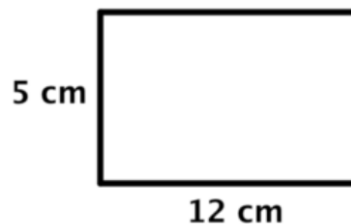## Which contains the most water?

A ☐   B ☐   C ☐   D ☐

*Mangahigh activity: **Calculate with capacity***

21

Find the perimeter of this rectangle.
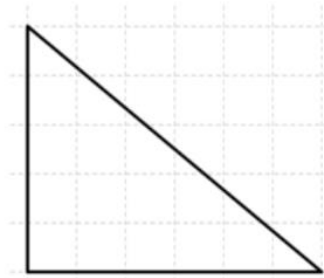

5 cm

12 cm

60cm ☐   34cm ☐   32cm ☐   17cm ☐

*Mangahigh activity: **Calculate the perimeter of complex shapes,***

22

Each small square is 1cm²
Find the area of the triangle below.

15cm²   13cm²   18cm²   10cm²

☐   ☐   ☐   ☐

Mangahigh activity: **Calculate the area of complex shapes by counting squares**

23

**A tree is 5 m and 50 cm tall.
How tall is the tree in cm?**

55cm   55000cm   5500cm   550cm
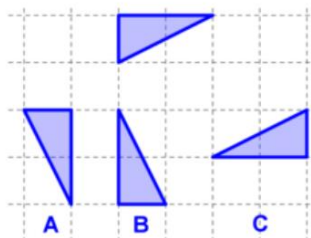
☐   ☐   ☐   ☐

Mangahigh activity: **Convert metric units of length**

24

Which diagram shows a rotation of the blue
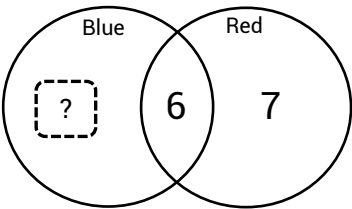triangle by a quarter turn clockwise?

A   B   C

☐   ☐   ☐

Mangahigh activity: **Draw shapes and patterns on a grid.
Enlarge on a grid**

25

The Venn diagram represents 18 shapes.
There are 7 plain red shapes, 6 red and blue shapes, and there are some plain blue shapes.
Complete this Venn diagram.

Blue   Red

? | 6 | 7

8 ☐   18 ☐   5 ☐   12 ☐

Mangahigh activity: **Use Venn and Carroll Diagrams**

26

A player rolls a four sided dice numbered 1 to 4 and then adds
2 to the roll to give a final score.
Complete the table to show the possible outcomes.

Dice roll	1	2	3	4
Final score	3	4	5	?

4 ☐   5 ☐   6 ☐   7 ☐

Mangahigh activity: **List possible outcomes from a single event**

27

The hair colour of 10 students was recorded as follows:
blonde, black, black, black, red, black, brown, brown, brown, blonde
What is the missing number in the table, which shows the number
of brown-haired students?

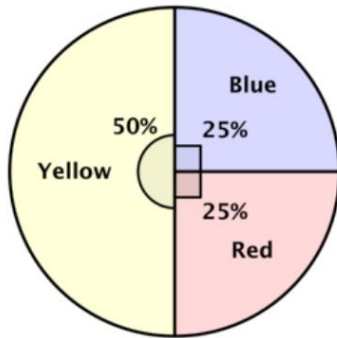| Hair colour	Blonde	Brown	Black	Red
Number of students	2	?	4	1

4 ☐   5 ☐   3 ☐   7 ☐

Mangahigh activity: **Construct and interpret frequency tables**

YEAR 5 NUMERACY – TEST 1

P28

Blue
50% 25%
Yellow
25%
Red

The pie chart shows the number of
coloured beads in a bag. There are 80
beads altogether.

There are ___ blue beads.

☐ 60

☐ 40

☐ 10

☐ 20

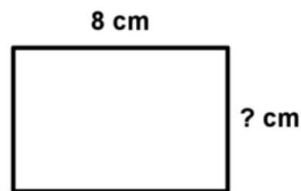*Mangahigh activity:* **Use Venn and Carroll Diagrams**

29

8 cm

? cm

The rectangle above has area 32 cm²
What is the length of the missing side?

4 ☐   5 ☐   6 ☐   7 ☐

Mangahigh activity: **Do calculations using the area of a rectangle**

30

2 cm

2 cm

6 cm

2cm
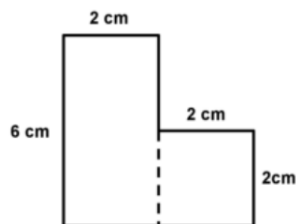
What is the area of the L shape above?

12cm² ☐   14cm² ☐   16cm² ☐   20cm² ☐

Mangahigh activity: **Do calculations using the area of a rectangle**

Mangahigh NAPLAN series

Year 5

TEST 2

Instructions:

- Once students have completed all Mangahigh activities marked as incorrect in TEST 1, they are now ready to attempt the post-test (TEST 2)

- Questions in TEST 2 is numbered P1, P2, P3 etc.

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P1

Complete the subtraction calculation.

$$
\begin{array}{r}
9\ 7\ 4 \\
-\ 6\ 2\ 1 \\
\hline
\end{array}
$$

P2

What is the missing **hundreds** number?

? + **20** + **4** = **324**

24	20	4	300
☐	☐	☐	☐

P3

Work out 5 × 2 + 4 by first working out 5 × 2.

Which **one** of these answers is correct?

30	40	14	10
☐	☐	☐	☐

YEAR 5 NUMERACY – TEST 2

P4

633 pencils are packed into boxes of 3
David works out that
3 x 200 = 600 and 3 x 11 = 33
How many boxes are needed?

233   213   231   211

☐   ☐   ☐   ☐

P5

There are 19 students in a class. 5 of them have brown hair.
What fraction of students **do not** have brown hair?

$\dfrac{5}{19}$ $\dfrac{13}{19}$ $\dfrac{19}{14}$ $\dfrac{14}{19}$

☐   ☐   ☐   ☐

P6

$2.15   ?

The cookie and the banana together cost $5.55
How much does the banana cost?

$3.50 $3.40 $5.30 $3.30

☐   ☐   ☐   ☐

YEAR 5 NUMERACY − TEST 2

P7

Which cannot be shared equally between five people?

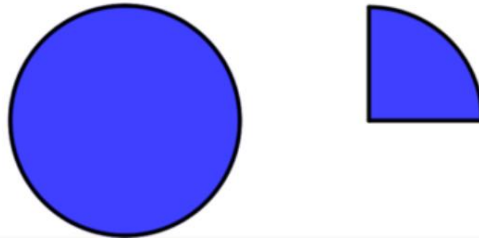21 sweets   30 cakes   15 cupcakes   5 sweets

☐   ☐   ☐   ☐

P8

How many quarters are there in $1\frac{1}{4}$?

5   7   6   4

☐   ☐   ☐   ☐

P9

William thinks of a number.
He works out one third of the number and gets 7.
What number did William think of?

14   28   21   10

☐   ☐   ☐   ☐

P10

Which **one** of the following is one seventh of $3.50?

$0.40 $0.60 $0.70 $0.50

☐   ☐   ☐   ☐

P11

Which **one** of the following shows 1.17 rounded to one decimal place? Use the number line to help you.

1.10   1.15   **1.17**   1.20
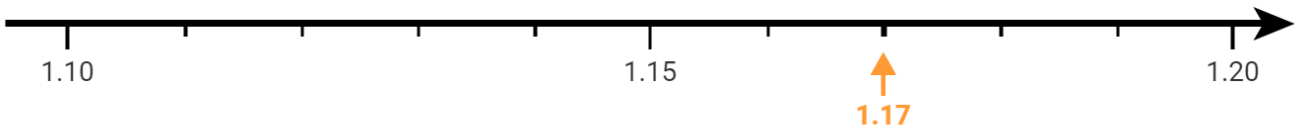
1.1   1.15   1.2   1.25

☐   ☐   ☐   ☐

P12

$$47400 \div 1000 =$$

47   47.4   4.74   474

☐   ☐   ☐   ☐

YEAR 5 NUMERACY − TEST 2

P13

Two toy shops are both selling the same toy car.
Shop A is selling the car for 80c. They have a 'buy 1, get 1 half price' offer.
Shop B is selling the car for 60c.
I want to buy 2 cars.
Which shop is the cheapest?

B

A

Both the same

☐

☐

☐

P14

Which one of the following calculations gives an answer of 1.5?

$2.0 − 0.5$

$1.4 − 0.3$

$1.2 + 0.7$

$2.0 + 0.5$

☐

☐

☐

☐

P15

Area of a square = side length × side length

Work out the area of the square shown below.

6 cm

6 cm
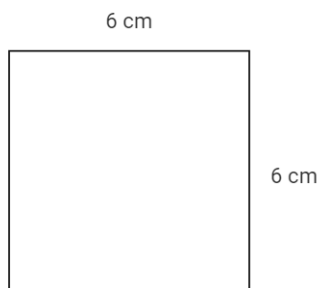
NOT TO SCALE

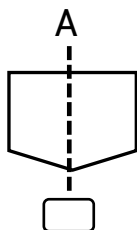Which **one** of the following shows the correct area of the square?

47

47.4

4.74

474

☐

☐

☐

☐

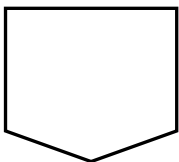# YEAR 5 NUMERACY – TEST 2

P16

This shape has one line of symmetry. Find it.
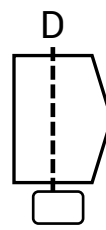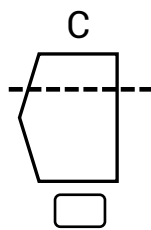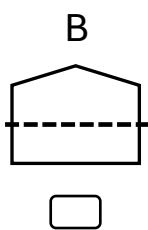
A   B   C   D

P17

A cross is placed in the centre of square D3. It is then moved left 2 squares and down 2 squares. Mark the new position of the cross.

	A	B	C	D	E
5		U		S	
4					
3			X		
2					
1		T		V	

☐ S

☐ T

☐ U

☐ V

P18

Jack went on holiday on Monday 15th of August.
Four days later, the date was Friday ____ of August.
Which one of the following words correctly completes the sentence?

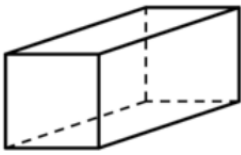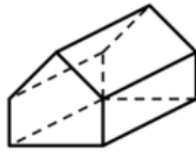11th   10th   19th   20th
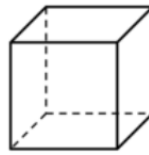
☐   ☐   ☐   ☐

P19

Which of these shapes has the most faces?
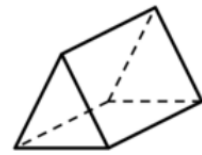

A   **B**   **C**   **D**

A   B   C   D

☐   ☐   ☐   ☐
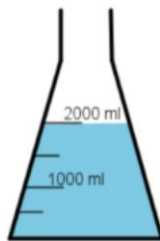
P20

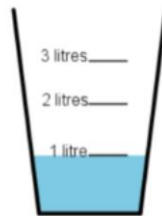## Which contains the most water?
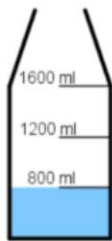
A   B   C   D
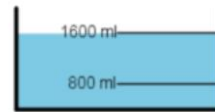
☐   ☐   ☐   ☐

P21

Find the perimeter of this square.

5 cm

5cm   20cm   25cm   15cm
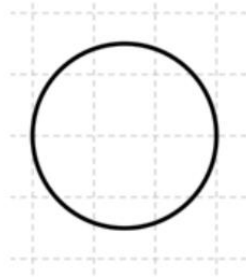
☐   ☐   ☐   ☐

YEAR 5 NUMERACY – TEST 2

P22

Each small square is 1cm²
Estimate the area of the circle below.

8cm²   6cm²   10cm²   12cm²
☐   ☐   ☐   ☐

P23

A tree is 7 m and 50 cm tall.
How tall is the tree in cm?

7500cm   75000cm   75cm   750cm
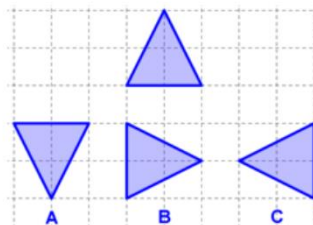☐   ☐   ☐   ☐

P24

Which diagram shows a rotation of the blue triangle by a quarter turn clockwise?

A   B   C
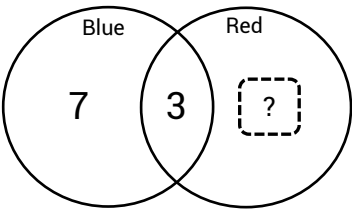☐   ☐   ☐

P25

The Venn diagram represents 15 shapes.
There are 7 plain blue shapes, 3 red and blue shapes, and
there are some plain red shapes.
Complete this Venn diagram.

Blue   Red

7   3   [?]

8	5	13	12
☐	☐	☐	☐

P26

A player rolls a four sided dice numbered 5 to 8 and then adds
3 to the roll to give a final score.
Complete the table to show the possible outcomes.

Dice roll	5	6	7	8
Final score	8	?	10	11

4	5	9	7
☐	☐	☐	☐

P27

15 students were asked their favourite colour.
These were the results: red, pink, red, red, green, blue, blue, green,
red, pink, red, green, blue, red, blue.
Use these results to complete the table.

Favourite colour	Red	Blue	Green	Pink
Number of students	6	?	3	2

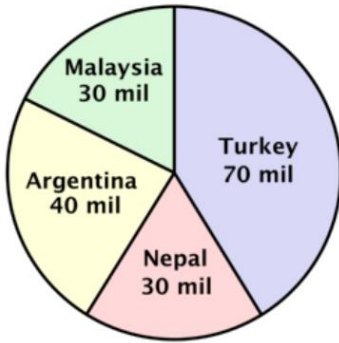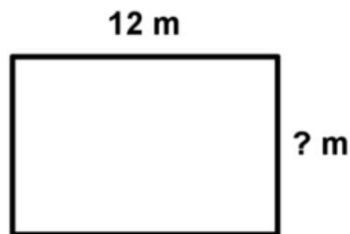| 4	5	3	7
☐	☐	☐	☐

P28

The pie chart shows the number of people that live in 4 different countries.

The country with the highest number of people is _____.
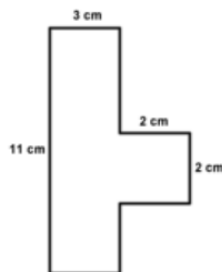
☐ Argentina

☐ Malaysia

☐ Nepal

☐ Turkey

P29

12 m

? m

The rectangle above has area 96 m²
What is the length of the missing side?

4 ☐   8 ☐   9 ☐   7 ☐

P30

3 cm

2 cm

11 cm

2 cm

What is the area of the T shape above?

32cm² ☐   37cm² ☐   39cm² ☐   34cm² ☐

Mangahigh NAPLAN series

Year 5

ANSWER SHEET

MANGAHIGH
westermann

Answer sheet

TEST 1	TEST 2
1. 434	P1. 353
2. 283	P2. 300
3. 26	P3. 14
4. 72	P4. 211
5. 8/15	P5. 14/19
6. 90c	P6. $3.40
7. 11 cakes	P7. 21 sweets
8. 1/3	P8. 5
9. 56	P9. 21
10. 25	P10. $0.50
11. B	P11. 1.2
12. 908	P12. 47.4
13. 560	P13. Both the same
14. 0.7	P14. 2.0-0.5
15. 36	P15. 36cm^2
16. A	P16. A
17. RIGHT 2 squares DOWN 3 squares	P17. T
18. 24th	P18. 19th
19. D	P19. B
20. B	P20. B
21. 34cm	P21. 20cm
22. 15cm^2	P22. 6cm^2
23. 550cm	P23. 750cm
24. A	P24. B
25. 5	P25. 5
26. 6	P26. 9
27. 3	P27. 4
28. 20	P28. Turkey
29. 4	P29. B
30. 16cm^2	P30. 37cm^2