

Progress in Understanding Mathematics Assessment

SUMMER
5

name

| | | | |
|-------------------|-------------------|---------------|--------------|
| Boy | Girl | Test date / / | |
| Date of birth / / | Chronological age | years | months |
| Category | Marks | | |
| Number | | /6 | |
| Operations | | /16 | |
| Fractions | | /12 | |
| Measures | | /6 | |
| Geometry | | /6 | |
| Statistics | | /4 | |
| Total | | /50 | |
| Problem solving | | /23 | |
| SS | Maths age | | Hodder scale |
| | | | |

1

Tick the **three** multiples of 8

24

38

48

78

96

ops

2

This sequence increases by the same amount each time.

Write in the missing numbers.

-16

-10

2

8

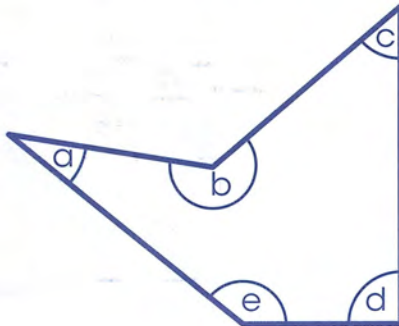
20

num

num

3

Write the missing letters in the boxes below.



Angle

is approximately 30°

Angle

is approximately 130°

Angle

is approximately 230°

geom

geom

4

There are **2000** sheets of paper in **one** box.

How many sheets of paper are there in
8 boxes?

 sheets
ops
PS

5

$$\frac{15}{14} - \frac{12}{14} = \boxed{}$$

frac

6

Write in the missing number.

| | | |
|---------|---|---------|
| 385 000 |  | +10 000 |
| 395 000 | | +10 000 |
| | | |

num

7

The sequence decreases by the same amount each time.

Write in the missing numbers.

$$1\frac{2}{3} \quad \boxed{} \quad 1\frac{2}{3} \quad \frac{1}{3} \quad 0 \quad -\frac{1}{3} \quad \boxed{}$$

frac

frac

8

The table shows how long it takes for four children to do their homework.

| name | Joe | Asif | Ken | Mina |
|---------------------------|--------------------|---------|----------|--------|
| time taken to do homework | $\frac{1}{4}$ hour | 20 mins | 200 secs | 3 mins |

Write the correct names in the sentences below.

spent the **most** time doing homework.
spent the **least** time doing homework.

meas
PS

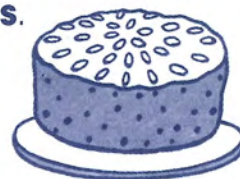
9

1 ounce is approximately 25 grams.

Ben is making a cake.

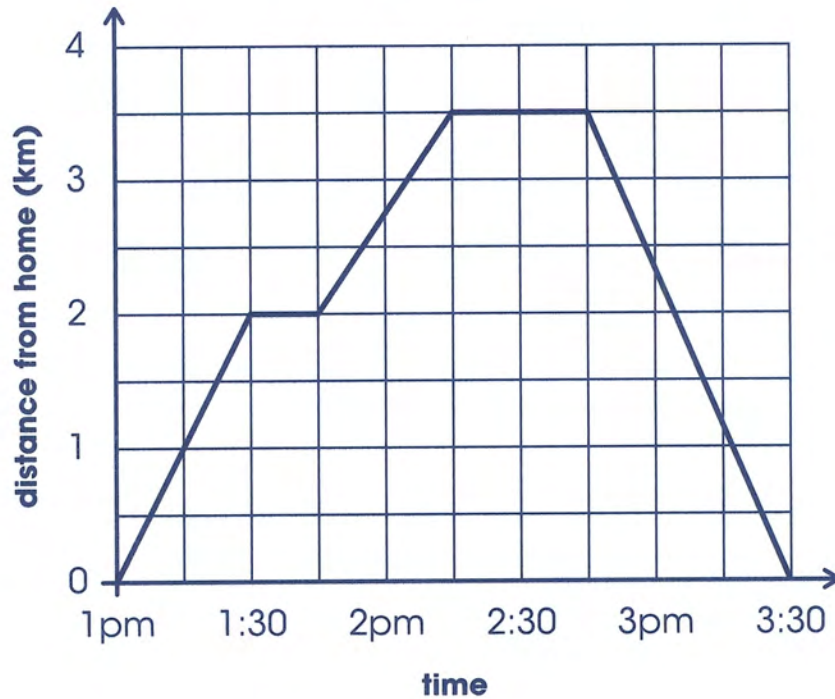
He needs 6 ounces of flour.

Approximately how many grams of flour does he need?


 g

meas
PS

Dan's journey to and from Anna's house



Complete the sentences below.

Dan sets off from his home at 1pm.

He stops for a rest at pm

He rests for minutes

He reaches Anna's house at 2:15pm.

Anna's house is km from Dan's home.

After half an hour Dan walks home from Anna's house.

It takes Dan minutes to walk home.

Tick the **three** different numbers that add up to 2

0.3

0.4

0.6

0.8

0.9

12

12 comics cost £36

How much do 2 comics cost?



ops
PS

13

Write in the missing number.

$$81 \times 24 = 81 \times 6 \times \square$$

ops

14

Ben's book has 8 chapters.
Each chapter has 13 pages.

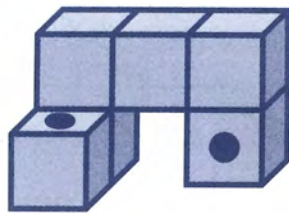
Ben has read **half** of the book.
How many pages has Ben read?



ops
PS

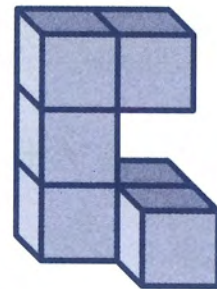
15

Anna makes this shape from six cubes stuck together.
Two circles are drawn on the shape.



Anna turns the shape.

Draw the **circles** on the shape in its
new position.



geom

16

$$56\,000 - 5600 = \boxed{}$$

ops

17

Tick the **three** numbers that are factors of **both 24 and 60**

2

3

5

8

12

ops

18

At Forest School, there are **10 more girls** than boys.
There are **120** children altogether.

Write in the missing numbers.

There are

girls and

boys at Forest School.

ops
PS

19

Complete the table.

| Event | Year, written in Arabic numerals | Year, written in Roman numerals |
|-------------------------------------|----------------------------------|---------------------------------|
| Queen Elizabeth I dies | 1603 | MDCIII |
| Dick Whittington is Mayor of London | | MCCCXCVII |

num
PS

20

$$7 \times 8 = 6 \times 9 + \boxed{}$$

$$6 \times 7 = 8 \times 9 - \boxed{}$$

ops

ops

page total

21

Write these fractions in order, starting with the **smallest**.

$$\frac{3}{4}$$

$$\frac{5}{8}$$

$$\frac{3}{8}$$

$$\frac{1}{2}$$



smallest

largest



frac

22

Use rounding to **estimate** the answer to $21.09 + 38.9 + 120.36$

Tick the best **estimate**.

160

170

180

190

200



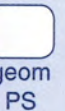
ops

23

Two shapes are in the **wrong** place on the sorting diagram.

Put a cross on each shape that is in the **wrong** place.

| | regular | irregular |
|-------------------|---------|-----------|
| quadrilateral | | |
| NOT quadrilateral | | |

geom
PSgeom
PS

24

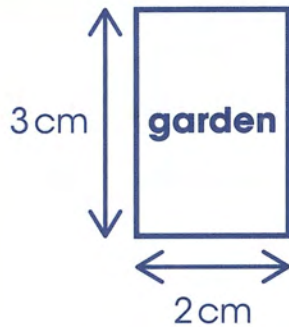
Sam has £80

He spends 35% of his money.

How much does he spend?

 £
frac
PS

25



On the scale drawing of a garden, 1cm represents 5m.

What is the **area** of the garden?

 m²
mea
PS

26

Pencils are sold in packs of 6

Park School wants to buy 1124 pencils.

How many whole packs must it buy?

 packs
ops
PS

27

Mrs Jones buys pizza for 6 children.

Each child can eat $\frac{2}{3}$ of a pizza.

What is the smallest number of whole pizzas that Mrs Jones must buy?


 whole pizzas
frac
PS

28

Puma is thinking of a whole number.

Rounded to the nearest 10 000, the number is 250 000

Rounded to the nearest 100 000, the number is 200 000

What could Puma's number be?



num
PS

29

Jill has a ribbon. She cuts it into 4 pieces, A, B, C and D.



Complete the table to show the missing **percentage**.

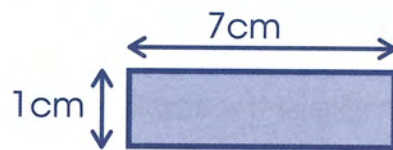
| piece | fraction of the ribbon |
|-------|------------------------|
| A | 15% |
| B | $\frac{2}{5}$ |
| C | 10% |
| D | % |

frac
PS

30

Hanna has some rectangles like this:

Not drawn to scale



She uses two of the rectangles to make an L-shape.



What is the **perimeter** of her shape?

 cm

meas
PS

31

Write these numbers in order, starting with the **smallest**.

0.5 0.45 0.345 0.53 0.4

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

smallest

largest

frac

32

(a) $438 \times 20 =$

(b) Use your answer to part (a) to calculate:

$438 \times 26 =$

ops

ops

33

What are the three **prime factors** of 42? One is done for you.

| | | |
|---|--|--|
| 7 | | |
|---|--|--|

ops

34

Complete the table.

| fraction | decimal |
|--------------------------------------|---------|
| $\frac{5}{1000}$ | 0.005 |
| $\frac{55}{1000}$ | |
| $\frac{\boxed{}}{1000}$ | 0.505 |

frac

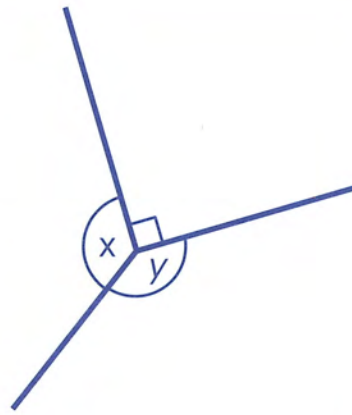
frac

page total

35

angle x = angle y

Not drawn accurately



What is the value of angle x ?

geom
PS

36

Write two **square numbers** that add up to 100

 and

num
PS

37

$$3^3 = \text{[]}$$

ops

38

Write in the missing numbers.

$$2.5\text{kg} = 2500\text{g}$$

$$0.05\text{kg} = \boxed{} \text{g}$$

$$\frac{4}{5}\text{kg} = \boxed{} \text{g}$$

$$\boxed{} \text{kg} = 8950\text{g}$$

39

$$\frac{2}{5} + \frac{3}{10} = \boxed{}$$

page total

Total

/50

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