

Place Value

PS Problem-solving questions

Challenge 1

1 Draw **two more** lines to match **4500** to amounts with the same value.

4500 ——— 45 tens
 4500 units
 450 tens
 450 units
 45 hundreds

2 marks

2 Write these numbers in order from the smallest to the largest.

316 31.6 36.1 3.61 31

Smallest

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Largest

4 marks

3 Circle the numbers with 35 tens.

3527 2357 35572 357

1 mark

Marks..... /7

Challenge 2

1 Use > and < to make these statements correct.

a) 19.4 18.9 b) 67438 69436 c) 2.357 2.537

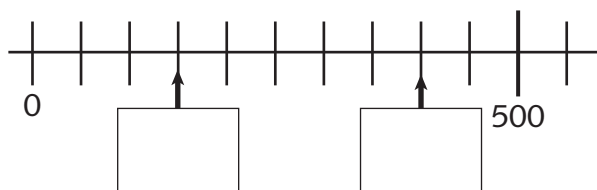
3 marks

PS 2 Use all of these digit cards to make an odd number whose tens are less than 7.

3 6 8 _____

1 mark

3 Fill in the boxes on the number line.



2 marks

Marks..... /6

Challenge 3

1 What are the next three terms in the sequence?

12 16.5 21 _____ _____ _____



3 marks

2 Which is nearer to 300?

279 or 311 _____



1 mark

PS 3 Using each of these five cards once, complete the statements below.

a) $1 \square 6 > 190$

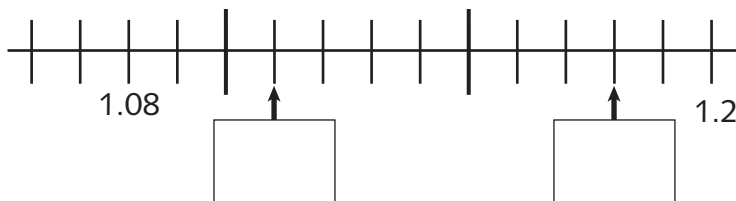
b) $3 \square > \square 5$

c) $\square 6 < 4 \square$



5 marks

4 Fill in the boxes on the number line.



2 marks

5 Circle the numbers with 32 thousands.

45329 132567 56321.8 432761.52



1 mark

Marks...../12

Total marks/25

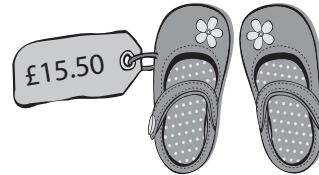
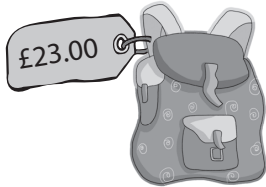
How am I doing?



Progress Test I

1 What number does XXVIII represent? _____

PS 2 Freya bought some shoes, a bag and some earrings for a party.



a) How much did she spend altogether? _____

b) What was her change from £50? _____

3 Order these numbers from smallest to largest.

299 2.90 29.9 29 229

4 What value does the digit 3 have in these numbers?

3217 _____ 546.3 _____

320765 _____ 132.5 _____

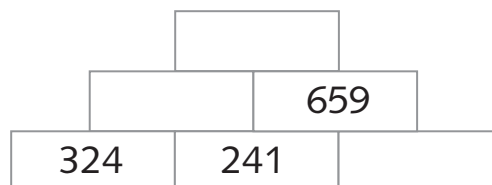
2375 _____ 78.93 _____

5 What are the next three numbers in this sequence?

301 201 101 _____ _____ _____

6 $998 + 34 =$ _____

PS 7 Each box on the grid should show the sum of the two boxes below it. Fill in the gaps in the grid.



8 What are the number bonds to 100 for the following?

a) 45 _____ b) 73 _____ c) 21 _____

1 mark

1 mark

1 mark

1 mark

6 marks

3 marks

1 mark

3 marks

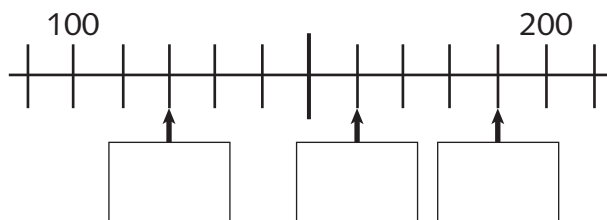
3 marks

Progress Test 1

9 What is 11 in Roman numerals? _____


1 mark

10 Fill in the boxes on the number line.




3 marks

11 Double 124 = _____


1 mark

12 $202 - 36 =$ _____


1 mark

13 $12.35 - 8.72 =$ _____


1 mark

14 Order these numbers from smallest to largest.

34 673 43 675 34 763 43 765 34 367


1 mark

15 Round 45 271.5 to the nearest:

ten _____

whole number _____

thousand _____

hundred _____

ten thousand _____


5 marks

16 a)

$$\begin{array}{r} 1356 \\ + 2653 \\ \hline \\ \hline \end{array}$$

b)

$$\begin{array}{r} 7613 \\ - 4527 \\ \hline \\ \hline \end{array}$$


2 marks

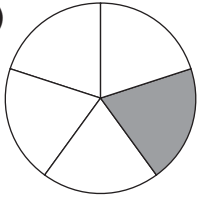
Fractions

PS Problem-solving questions

Challenge 1

1 What fraction of the shapes is shaded?

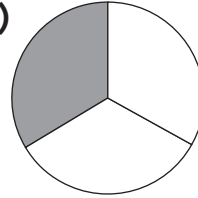
a)



b)



c)





3 marks

2 Simplify these fractions:

a) $\frac{5}{10}$

b) $\frac{8}{24}$

c) $\frac{8}{12}$



3 marks

3 Draw lines to join the equivalent fractions. One has been done for you.

$\frac{3}{9}$

$\frac{2}{5}$

$\frac{8}{20}$

$\frac{3}{4}$

$\frac{6}{12}$

$\frac{1}{3}$

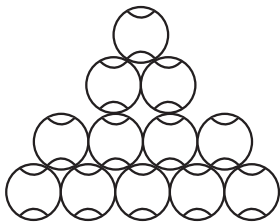
$\frac{12}{16}$

$\frac{1}{2}$



3 marks

4 Shade $\frac{1}{4}$ of these tennis balls.



1 mark

Marks..... /10

Challenge 2

PS 1 Order these fractions from the smallest to the largest.

$\frac{3}{4}$

$\frac{1}{8}$

$\frac{1}{2}$

$\frac{1}{4}$

Smallest

Largest



3 marks

2 Simplify these fractions.

a) $\frac{9}{12}$

b) $\frac{6}{24}$

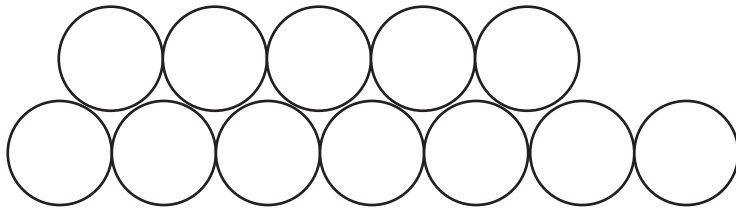
c) $\frac{6}{45}$



3 marks

Fractions

3 Shade $\frac{3}{4}$ of these squash balls.



1 mark

PS 4 Use $>$, $<$ or $=$ between these pairs of fractions.

a) $\frac{3}{4}$ $\frac{7}{8}$ b) $\frac{10}{15}$ $\frac{1}{3}$ c) $\frac{6}{12}$ $\frac{4}{8}$

3 marks

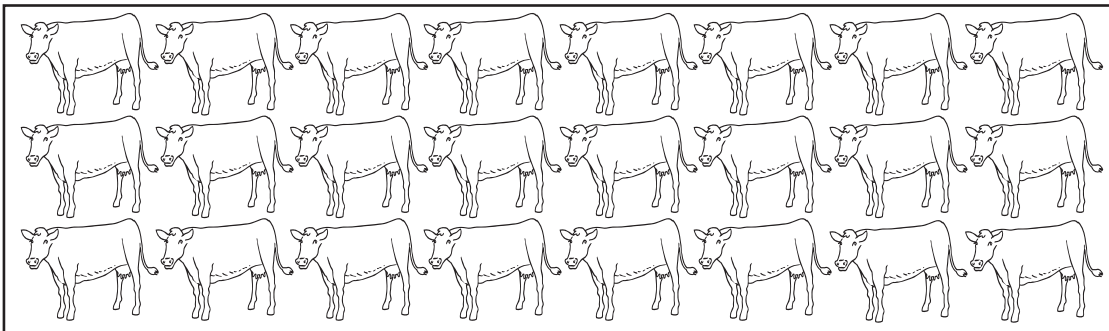
Marks..... /10

Challenge 3

PS 1 Farmer Biggs has 24 cows.

$\frac{3}{8}$ are black, $\frac{1}{6}$ are brown, $\frac{3}{12}$ are spotted and the rest are white.

Shade the cows to show the number of each colour.



3 marks

PS 2 Order these fractions from the smallest to the largest.

$\frac{6}{12}$ $\frac{3}{4}$ $\frac{3}{8}$ $\frac{1}{4}$ $\frac{5}{8}$

Smallest Largest

4 marks

PS 3 Use $>$, $<$ or $=$ between these pairs of fractions.

a) $\frac{25}{30}$ $\frac{10}{25}$ b) $\frac{12}{18}$ $\frac{30}{45}$ c) $\frac{16}{28}$ $\frac{9}{15}$

3 marks

Marks..... /10

Total marks /30

How am I doing?



Progress Test 2

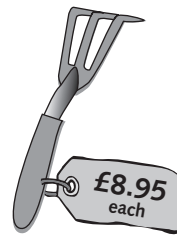
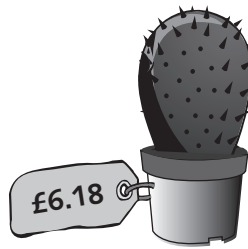
18 List all the factors of 24. _____

19 Find 85% of 160. _____

20 $24 \times 46 =$ _____

21 $4^3 - 7^2 =$ _____

PS 22 Look at the items at the garden centre.



- a) How many plants can Julie buy for £30? _____
- b) If Jai buys seven forks, how much has he spent? _____
- c) Amelia spends exactly £46.75 on seeds.
How many packets of seeds did she buy? _____
- d) If plants are on a special offer of 'Buy two get one free',
how much does each of the three plants actually cost?

26 $247 \times 8 =$ _____

27 Circle the cube numbers.

5 8 12 25 27 36

28 $224 \div 14 =$ _____

29 $1015 \div 35 =$ _____

30 $5^3 =$ _____

31 $\frac{1}{12} \div 2 =$



1 mark



1 mark



1 mark



1 mark

1 mark

1 mark

1 mark

1 mark

1 mark

2 marks

1 mark

1 mark

1 mark

1 mark

Progress Test 2

PS 32 Draw lines to join the equivalent fractions. One has been done for you.

$\frac{16}{20}$	$\frac{20}{14}$
$1\frac{3}{7}$	$\frac{4}{5}$
$\frac{1}{4}$	$\frac{2}{7}$
$\frac{18}{30}$	$\frac{3}{5}$
$\frac{6}{21}$	$\frac{8}{32}$

(A line is drawn from $\frac{1}{4}$ to $\frac{8}{32}$)

33 $\frac{1}{4} \times \frac{1}{5} = \square$

PS 34 Ali has a box of chocolates. He gives seven of his friends five chocolates each. He has six chocolates left.

How many chocolates were in the box? _____

35 $2^2 + 4^3 - 3^2 = \underline{\hspace{2cm}}$

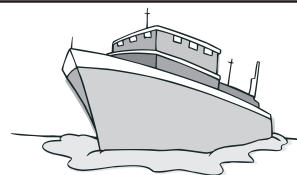
36 What are the common multiples of 3 and 4 (between 1 and 30)?

PS 37 18 out of a class of 30 children are girls. What percentage are girls?

PS 38 Look at this sign advertising boat hire.

Boat Hire

£7.75 per hour
or 4 hours for £30



a) Carl wants to hire a boat for four hours.

Is it cheaper to pay by the hour or take the four-hour deal?

b) Geeta hired a boat for six hours and got the cheapest deal.

How much did she pay? _____



4 marks



1 mark



1 mark



1 mark



2 marks



1 mark



1 mark



1 mark

Marks..... /51