6.5.2020

Check through answers from last week and, if you have any corrections, identify where you went wrong and correct your work.

Arithmetic –Summer test 1

Summer Test 1

Name: ..... Class: ..... Date: .....

1	$14 \times 0 =$ ☐	2	$7^2 =$ ☐
3	$1 - 0.7 =$ ☐	4	$210 \times$ ☐ $= 210\,000$
5	$7 = 35 \div$ ☐	6	$4896 \div 9 =$ ☐
7	☐ $\times 10 = 29 + 31$	8	$\frac{4}{5} + \frac{1}{10} =$ ☐
9	☐ $= (14 + 8) \div 11$	10	$\frac{1}{2} \times \frac{1}{3} =$ ☐
11	$864.233 \div 100 =$ ☐	12	$\frac{5}{4} + \frac{5}{8} =$ ☐
13	$6 + 4 \times 2 =$ ☐	14	$\frac{5}{8}$ of $32 =$ ☐
15	☐ $= 30\%$ of 120	16	$6 \times$ ☐ $= 8958$

Summer Test 1 (continued)

17	$7 + 6 \div (3 \times 2) =$ ☐	18	$73\,648 + 976 - 2785 =$ ☐
19	$5 = 6480 \div$ ☐	20	$7005 -$ ☐ $= 1657$
21	$4 \overline{)585}$	22	☐ $= 5\%$ of 80
23	$6 + 3 \times (3 - 1) =$ ☐	24	$17.3 - 9.725 + 8.6 =$ ☐
25	$35 \overline{)7665}$ (2 marks) ☐	26	$16 =$ ☐ $+ 2.815$
27	$\begin{array}{r} 9384 \\ \times \quad 27 \\ \hline \end{array}$ (2 marks) ☐	28	$5 \overline{)872}$

Total marks /30

7.5.2020

https://www.bbc.co.uk/bitesize/topics/znjqtfr/articles/zcfyw6f

How to calculate percentage

Quick quiz- prehistoric percentages

https://www.bbc.co.uk/bitesize/topics/znjqtfr/articles/zsgwq6f

Match of the day pitch percentages- complete questions

Simple fraction	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{10}$	$\frac{2}{10}$
Fraction out of 100	$\frac{50}{100}$	$\frac{25}{100}$	$\frac{75}{100}$	$\frac{10}{100}$	$\frac{20}{100}$
Decimal	0·5	0·25	0·75	0·1	0·2
Percentage	50%	25%	75%	10%	20%

1. 360 cats are tested. 20% of the cats like Yumkat. How many cats like Yumkat?

2. 360 cats are tested. 90 of the cats prefer wet cat food to dry cat food. What percentage of the cats prefer wet cat food?

3. 60% of the cats like meat better than fish. How many cats is this?

4. 15% of the cats like poultry. How many cats is this?

1. There are 250 children in a school. 24% of them come to school on a bus. How many children is this?

2. 90 of the children cycle. What percentage is this?

3. How many children come to school another way?

A laptop costs £500. In a sale there is 30% off that price. How much will the laptop cost?

Fractions and percentages

Find each percentage.

1. 50% of 180
2. 10% of 220
3. 25% of 400
4. 90% of 200

Write the smaller amount as a percentage of the larger amount.

5. 60 of 240
6. 800 of 8000
7. 6 of 30
8. 5·5 of 27·5

Write these fractions as percentages.

9. $\frac{1}{10}$
10. $\frac{3}{4}$
11. $\frac{1}{4}$
12. $\frac{1}{5}$

Now solve these word problems.

13. A pair of jeans cost £25. In a sale they are reduced by 10%. How much do they cost in the sale?

14. Cinema tickets are £12 each. On a Wednesday the tickets cost 25% less. Kath and Ron go together to see a film. How much do their tickets cost in total?

15. There are 3000 people at a rugby match. 10% of them are children and the rest are adults. 20% of the adults are women. How many children are there? How many of the adults are women? How many of the adults are men?

P20

Miss Crofton's group
Q1-12

Challenge- 13-15

Find each percentage.

1. 50% of 390
2. 20% of 760
3. 90% of 2860
4. 15% of 500

Write each smaller amount as a percentage of the larger amount.

5. 75 of 375
6. 26 of 520
7. 820 of 16 400
8. 3·5 of 28

Write these fractions as percentages.

9. $\frac{24}{32}$
10. $\frac{16}{64}$
11. $\frac{15}{120}$
12. $\frac{7}{20}$

Now solve these word problems.

13. Kevin wants to buy a game for his console. It costs £43·50 normally but has been reduced by 20%. How much will it cost now?
14. A weekend break to France costs £358. The holiday company is reducing the cost by 15%. What is the new price?
15. Find the difference between £650 reduced by 50% and £560 reduced by 60%.
16. Last week a TV soap opera had 7545 viewers. This week it had 20% fewer viewers. How many viewers did it have this week?

P21

Miss McAnally's/ Miss Barry's group

Doughnut Percents

Age 7 to 14 ★★

This is one of a series of problems designed to develop students' team working skills. Other tasks in the series can be found by going to this article.

0·3	20%	$\frac{9}{10}$	30%
0·8	25%	$\frac{1}{2}$	40%
$\frac{1}{5}$	$66\frac{2}{3}\%$	$\frac{1}{4}$	0·5
0·4	$\frac{4}{5}$	$\frac{3}{10}$	10%

$0\cdot\dot{6}$	$\frac{1}{4}$	0·8	$33\frac{1}{3}\%$
$\frac{1}{3}$	50%	$\frac{1}{10}$	$\frac{3}{4}$
75%	90%	$\frac{3}{5}$	80%
50%	0·6	0·25	30%

EXTENSION/ ALTERNATIVE ACTIVITY

What are you aiming to do?

Every member of the team must end up with a set of four dominoes which join together to form a "doughnut" where touching ends have equal value. For example:

0·8	40%	$\frac{2}{5}$
80%		$\frac{1}{4}$
0.3	30%	25%

The task is only successfully completed when everyone on the team has completed their domino doughnut.

BANK HOLIDAY

11.5.2020

Miss Crofton's group p61

Miss McAnally's group p66

Miss Barry's group p67

12.5.2020

METHOD MATHS- R02

THEN
MASTERY CHECKPOINT (slide 14)

abacus Mastery Checkpoint

Have you mastered using equivalences between fractions, decimals and percentages?

a) Put these in order of size from smallest to largest

$\frac{3}{4}$ 0·45 80% 0·7 30% $\frac{2}{5}$

b) Which is heavier, $\frac{3}{4}$ of 84 kg or 40% of 150 kg? Explain how you know.

Champions' Challenge

A games console is in the sale in three different shops. These are the prices:

Games You Like	Original price £250	20% off in the sale
Terrific Toys	Original price £300	25% off in the sale
Market of Games	Original price £280	30% off in the sale

Peter says that the cheapest place to buy the console in the sale is the same place as it was before the sale. Is he right? Explain how you know.

For further practise, you may wish to have a look at https://www.thenational.academy/online-classroom/year-6/maths#subjects

This is a series of online lessons with teachers that may help you with areas you have previously found difficult.

PLEASE NOTE- The work we set is in line with what we would be doing in school- this site focuses on things we have previously covered (fractions/ angles)
If you choose to follow these lessons instead of what has been set then you would need to do all work on paper and send photographs of what you have done. The expectation is that those of you sending in photos of your work present work as you would be expected to in school.