

Sutton Maths Class

Year 4 - Week 29

Starter/Homework:

(Starred questions are optional)

1 Simplify:

a) $\frac{56}{60}$ b) $\frac{650}{750}$

2 Complete the following:

$$\frac{4}{21} = \frac{?}{42} = \frac{20}{?}$$

3 Convert $\frac{40}{6}$ to mixed number.

4 Find $\frac{2}{9}$ of £360.

5 Find 20% of \$40.

6* Decrease 80p by 40%.

7 Write $4\frac{68}{100}$ as a decimal.

8 Round 6.299 to the nearest tenth.

9 Solve $8x - 5 = 51$ $x = \underline{\hspace{2cm}}$

10**** Solve $\frac{x}{2} = 20$ $x = \underline{\hspace{2cm}}$

11** I think of a number, multiply by 3, subtract 1 and the answer is 14. What was the number?

12 a $6 - 14 =$
 b* $-46 - 2 =$
 c $-5 - 13 =$
 d $0 - 20 =$
 e* $1 - 50 =$

13 a $-80 \times -5 =$

b* $16 \div -4 =$

c*** $(-8)^2 =$

d*** $14 + 6 \times -2 =$
 (don't forget BIDMAS)

e**** $(-3)^2 \times 2^2 - 5^2 =$

14**** $7 \times 6 - 3 \times 2^2 =$

15**** If $a = 0.3$ and $b = 10$ find:

a $a \times b$

b $b^2 + a$

c*** $a^2 \times b$

16 Simplify:

a) $60 : 3$ b) $18 : 36$

17** Split £340 in the ratio 15:2.

18 List the factors of 52.

19*** Draw a factor tree for 200.

20 a $\frac{2}{3} + \frac{1}{6} =$ b $\frac{5}{6} \times \frac{2}{3} =$

21 Complete the following:

a $0.2 \text{ cm} = \square \text{ mm}$

b $0.614 \text{ m} = \square \text{ mm}$

c $2700 \text{ g} = \square \text{ kg}$

d $682 \text{ ml} = \square \text{ litres}$

22*** What fraction of 600kg is 500g?

23 Complete the following sequences:

a 7, 10, 13, 16, 19, __, __

b 3, 6, 12, 24, 48, __, __

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24** Find the first four terms of the sequence with nth term $6n + 3$.

25 Calculate:

a $12^2 - 5^3$

b** $6^2 - \sqrt{16} - 4^2$

26 Convert the following:

a 0.21 (percentage)

b 93% (decimal)

c 90% (decimal)

d 0.3 (percentage)

e 70% (fraction)

f 49% (fraction)

g 0.12 (fraction)

h*** 0.425 (percentage)

i*** 0.375 (fraction)

27 Calculate:

a $0.5 \times 0.02 =$

b* $12 \div 0.1 =$

c*** $8 \div 0.2 =$

d***** $(0.03)^2 =$

e***** $-20 \times -0.3 =$

28 Write the nth term of the sequence:

12, 16, 20, 24, 28, ...

29**** Find the nth term of:

5.5, 6, 6.5, 7, 7.5, 8

30***** Write the nth term of the sequence

60, 58, 56, 54, 52 ...

31 The following are 8 pupils shoe sizes:

5, 2, 4, 3, 7, 4, 5, 4

a)**** Find the mean to the nearest whole number.

b) Find the mode.

c) Find the median.

d) Find the range.

32 Write DCCCXXIX as an Arabic numeral.

33 Writ 649 in Roman numerals.