

# Sutton Maths Class

## Year 5 - Week 6 - Negative Numbers Multiplying and Dividing Negatives

Starter/Homework:

1  $\frac{3}{4} + \frac{1}{5} =$

2  $\frac{3}{4} \times \frac{4}{7} =$

3  $\frac{1}{2} \div \frac{1}{7} =$

4  $\frac{1}{6} \times 7 =$

5 What is 0.8 as a fraction?

6 What is  $\frac{1}{8}$  as a percentage?

7 What is 0.04 as a fraction?

8 What is 40% as a decimal?

9 What is 0.3 as a percentage?

10 What is 0.95 as a fraction?

11  $0.3 + 0.21 =$

12  $3 - 1.45 =$

13  $0.908 - 0.129 =$

14  $0.9 \times 0.9 =$

15  $(0.5)^2 =$

16  $1.2 \times 0.5 =$

17  $15 \times 0.3 =$

18  $50 \times 0.1 =$

19  $20 \div 0.5 =$

20  $2 \div 0.1 =$

21 Write  $\frac{3}{20}$  as a decimal.

21 A rectangle has length  $10m$  and width  $20cm$ . Find the area in  $m^2$ .

Hint: make sure the units are the same before multiplying.

22 Find  $\frac{5}{6}$  of 6900g.

23 Find 55% of 30kg.

24 What is 250g as a fraction of 10kg?

25 What is £60 as a percentage of £500?

26 The temperature falls from 15 degrees to -4 degrees. How many degrees has it fallen?

27 Calculate  $-20 - 15$

28 Calculate  $-5 - -15$

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Questions:

1 Calculate:

a  $-8 \times -7$

b  $6 \times -10$

c  $5 \times -5$

d  $-2 \times -6$

e  $-9 \times -9$

f  $(-7)^2$

2 Calculate:

a  $-20 \div 10$

b  $12 \div -3$

c  $-25 \div -5$

d  $-88 \div 2$

e  $90 \div -15$

f  $300 \div -15$

3 Calculate:

a  $-2 \times -6$

b  $7 \times -4$

c  $-9 \times 3$

d  $-10 \times -90$

e\*  $-1.2 \times 1.2$

f\*  $0.05 \times -0.8$

g\*  $\frac{6}{7} \times -1\frac{2}{3}$

4 Calculate:

a  $90 \div -5$

b  $-\text{£}120 \div 12$

c  $-1.2\text{kg} \div 250\text{g}$

d\*  $-2.5 \div 0.5$

e\*  $-\frac{1}{2} \div \frac{3}{4}$

5 Calculate:

a  $7 - 12$

b  $-10 - 40$

c  $-12 + -6$

d  $-4 \times -7$

e  $-9 - -12$

f  $140 \div -28$

g  $-12 - 50$

h  $-12 \times -6$

i  $-81 \div 9$

6 a\*  $-\frac{1}{2} + \frac{6}{7}$

b\*  $6.5 \times -20$

c\*  $\frac{3}{4} \div -\frac{1}{5}$

d\*  $-4.8 - +6.2$

e\*  $-0.9 \div -0.03$

f\*\*\*  $\frac{1}{3} \times -0.2 - -\frac{7}{30}$

7 Calculate  $(-6)^2$

8 Calculate  $(-0.5)^2$

9\* If  $t=6$  and  $k=-4$  find:

a  $2 \times t + k$

b  $3 \times t - k$

c  $(6 \times k) + (2 \times t)$

d  $t^2$

e  $k^2$

f  $t^2 - k^2$

10\*\* If  $j=0.5$  and  $m=-4$  find:

a  $j \times m$

b  $j + m$

c\*\*  $m^2 + j^2$