

KEY SKILLS: SHEET 1

A few negative number calculations

$-12 - 7$	$-15 - 2$	$-18 + 5$	$15 - 17$
$-2 + 7$	$-3 - 12$	$-4.5 - 1.5$	$4 - 11$
$-25 + 7$	$-11 + 20$	$1.5 - 2.5$	$-2 + 3.5$
$5 - -3$	$12 - -20$	$-8 - -3$	$-9 - 21$

-3×-7	-5×-2	-3×11	12×-4
$(-5)^2$	$(-1)^2$	3^2	30000×-2

Number Extension: Write down the number half way between the following pairs of numbers

<i>1 and 7</i>	<i>2 and 5</i>	<i>-1 and 3</i>
<i>1.5 and 2</i>	<i>2.7 and 2.9</i>	<i>3.1 and 3.2</i>

Calculate the following divisions

$32400 \div 5$	$4070 \div 3$	$22116 \div 4$
$123 \div 7$	$43 \div 6$	$1234 \div 5$
$12345 \div 6$	$0.3 \div 5$	$10001 \div 7$

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BIDMAS – order is important

Calculate the following extremely carefully – showing all steps

$5 + 11 \times 2$	$12 + 2(7 - 3)$	$15 \times 3 - 2 \times 9$
$25 - 18 \div 2 + 7$	$14 - (9 - 12)$	$(3 + 2)(5 + 1)$
$(4 - 7)(2 - 9)$	$(5 + 1)^2$	$7 - (2 + 5)^2$
$-12 + 3(2 - 5)$	$-15 - 2 \times 3$	$2(3 - 12)^2$

Approximating calculations (with BIDMAS)

Find a suitable approximation to the following calculations. Show carefully what you have rounded each number to be BEFORE you do any calculating

$2.1 + 3.2 \times 5.9$	$4.1 \times 5.9 - 7.1 \times 2.3$	$26.1 - (3.2 - 1.9)$
$18.2 + 7.9 \div 2.22$	$4.1 + 2.9^2$	$4.4 + 5.1(2.6 + 7.9)$
4.5×3.3^2	$\sqrt{26}$	2.2^5
$\frac{3.2 \times 1.9 + 3.9}{5.1}$	$30.2 \div 2.9 + 9.1$	$(2.3)^5$

More fraction practice: Essential to get to a grade B

$3\frac{1}{2} \times 2\frac{3}{5}$	$3\frac{1}{3} \times 2\frac{1}{5}$	$2\frac{1}{5} + 5\frac{2}{15}$
$\frac{3}{11} \div \frac{2}{5}$	$5\frac{1}{3} \div \frac{4}{3}$	$7 \times \frac{3}{11}$
$5 \div 2\frac{1}{3}$	$4\frac{2}{5} - 1\frac{1}{4}$	$\frac{4}{11} + \frac{2}{3}$
$\frac{3}{5} - \frac{4}{3}$	$5\frac{1}{7} - 2\frac{3}{5}$	$\left(13\frac{7}{8}\right)^2$