

## Mix Essential skills – non calculator #2

Expand $4(7x + 2y)$	Decrease 480 by 12%	Factorise $18a - 9$	Prime numbers between 20 and 30	Solve, $8a + 2 = 3a + 47$	Find 22.5% of 260	Expand and simplify: $5(3a + 2) - 3(6a - 4)$	LCM of 42 and 21
Write as improper fraction $5\frac{3}{7}$	Work out $5.6 \times 0.33$	Calculate $5\frac{2}{3} + 4\frac{1}{4}$	Write 30 as a percentage of 50	Expand $6(8 - 2y)$	$\frac{7}{25}$ as a percentage	Solve, $4(4x - 3) = 22$	0.032 as a percentage
Make $a$ the subject $7a + b = c$	Write 6 as a percentage of 30	Square numbers which is also 1 less than a prime number	Evaluate $5.4 \div 0.6$	HCF of 32 and 40	Calculate $4\frac{1}{3} - 3\frac{1}{4}$	Factorise $a^2 + 10a + 16$	Write as top heavy fraction $8\frac{2}{7}$
Expand and simplify: $6(3a + 2) + 3(4a - 5)$	HCF of 486 and 648	Calculate $\frac{3}{7} \div \frac{2}{5}$	Expand $8(3x + 2)$	Mean of the following 13, 10, 6, 8, 8, 3	Calculate $\frac{5}{8} - \frac{1}{4}$	Calculate $7 \div \frac{2}{3}$	Make $a$ the subject $c = a^2 - b$
Solve $a^2 + 4a - 21 = 0$	Solve, $6a - 2 = 28$	Factorise $20ab - 5b$	Write 9 as a percentage of 20	Work out $0.45 \times 0.07$	Order (smallest first) $\frac{3}{5}, 0.65, 55.5\%$	Expand $a(5a + f)$	$\frac{9}{20}$ as a percentage
Calculate $\frac{3}{7} + \frac{1}{5}$	Evaluate $23 \div 5$	Write as mixed number $\frac{54}{5}$	Factorise $a^2 - 25$	Find the median 6.4, 6.04, 6, 6.44, 6.04	Work out $45 \div 0.9$	LCM of 5, 6 and 7	Write as mixed number $\frac{322}{7}$
Expand $5y(3x + 7y)$	$\frac{9}{36}$ as a percentage	Prime numbers between 80 and 90	Find 12.5% of 240	Calculate $\frac{5}{7} \times \frac{2}{15}$	0.7 as a percentage	Calculate $x$ if mean is 5 2, 4, $x$ , 8, 3	Solve, $60 = \frac{a + 7}{5}$
0.32 as a fraction	Factorise $ab^3 + b^2$	Solve, $7a = 10a - 21$	Make $a$ the subject $t - 2a = h$	Order (smallest first) $1\frac{1}{4}, 1.3, 127\%$	Expand and simplify: $7(x + 6) + 3(x + 2)$	Increase 60 by 15%	Factorise $a^2 + a - 56$