

Mix Essential skills – non calculator #3

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|---|----------------------------------|---|--------------------------------------|--|---|---|---|
| Expand $4(7 - 3y)$ | Decrease 420 by 13% | Factorise $26a - 13$ | Prime numbers between 10 and 20 | Solve, $2a + 22 = 11a - 5$ | Find 22.5% of 150 | Expand and simplify: $7(2a + 1) - 2(5a - 2)$ | LCM of 32 and 40 |
| Write as improper fraction $4\frac{2}{9}$ | Work out 4.7×1.3 | Calculate $1\frac{2}{3} + 1\frac{1}{4}$ | Write 32 as a percentage of 40 | Expand $7(3 - 9y)$ | $\frac{9}{25}$ as a percentage | Solve, $5(3x - 2) = 19$ | 0.045 as a percentage |
| Make a the subject $9a + b = c$ | Write 9 as a percentage of 30 | Square numbers which is also 1 more than a prime number | Evaluate $3.2 \div 0.8$ | HCF of 51 and 34 | Calculate $3\frac{1}{3} - 2\frac{1}{4}$ | Factorise $a^2 + 9a + 20$ | Write as top heavy fraction $10\frac{2}{7}$ |
| Expand and simplify: $5(7a + 3) + 4(7a - 8)$ | HCF of 486 and 648 | Calculate $\frac{5}{7} \div \frac{3}{5}$ | Expand $9(4x + 3)$ | Mean of the following 3, 7, 2, 5, 3 | Calculate $\frac{9}{10} - \frac{1}{4}$ | Calculate $9 \div \frac{4}{5}$ | Make a the subject $c = a^2 - 8$ |
| Solve $a^2 + 2a - 15 = 0$ | Solve, $8a - 2 = 30$ | Factorise $18a^2b - 9ab$ | Write 3 as a percentage of 20 | Work out 5.6×0.03 | Order (smallest first) $\frac{1}{5}, 0.19, 21.5\%$ | Expand $f(f - 1)$ | $\frac{11}{20}$ as a percentage |
| Calculate $\frac{2}{9} + \frac{2}{7}$ | Evaluate $47 \div 5$ | Write as mixed number $\frac{60}{7}$ | Factorise $a^2 - 100$ | Find the median 4.3, 4.03, 4.003, 4 | Work out $96 \div 0.8$ | LCM of 3, 5 and 7 | Write as mixed number $\frac{281}{5}$ |
| Expand $6y(7x + 3)$ | $\frac{7}{28}$ as a percentage | Prime numbers between 30 and 40 | Find 12.5% of 170 | Calculate $\frac{4}{9} \times 6$ | 0.1 as a percentage | Calculate x if mean is 7 2, 4, x , 8, 3 | Solve, $81 = \frac{a + 7}{9}$ |
| 0.46 as a fraction | Factorise $ab^5 + b^2$ | Solve, $8a = 10a - 12$ | Make a the subject $t - 2a = g$ | Order (smallest first) $1\frac{2}{5}, 1.3, 127\%$ | Expand and simplify: $8(2x + 6) + 3(x + 1)$ | Increase 70 by 15% | Factorise $a^2 - 4a - 32$ |