Year 8 Quiz

## FDP and Algebra

|  |  |  |
| --- | --- | --- |
| Fraction | Decimal | Percentage |
| $$\frac{83}{100}$$ |  |  |
|  | $$0.48$$ |  |
|  |  | $$50\%$$ |
| $$\frac{15}{20}$$ |  |  |
|  | $$0.06$$ |  |
|  |  | $$25\%$$ |

Calculate the following and if possible, write as a mixed fraction and in its simplest form.

1. $\frac{1}{2}+\frac{3}{8}$
2. $\frac{3}{4}+\frac{1}{6}$
3. 3 $\frac{1}{2}-1\frac{3}{5}$
4. Work out $\frac{2}{5} of 20$
5. $24 × \frac{3}{8}$
6. $21 ÷ \frac{3}{4}$
7. $\frac{4}{5} × \frac{3}{8}$
8. $\frac{7}{8} ÷ \frac{3}{4}$
9. Simplify $3x+5x+7x$
10. Simplify $4+9v-6v-11$
11. Expand $12(3+4b)$
12. Expand $5k(6m-8k)$
13. Expand $8\left(z+3\right)+5(4+3z)$
14. Expand $3\left(5a+3b\right)-2(3a-5b)$