

A013 Expressions and formula

1. ...

- ① a) $15fg$
 b) t^2
 c) $4n$

- ② a) $3p$
 b) $2m^3$
 c) $10-4c+6d$

- ③ a) $6f$
 b) $16mz$
 c) $2t^2$

- ④ a) $10ab$
 b) $8x+y$

⑤ 30

⑥ 23

⑦ -3

- ⑧ a) 37
 b) -25.5

- ⑨ a) -13
 b) 5

⑩ $\frac{96}{2^2} = 24 < 25 \therefore \text{No}$

- ⑪ a) 174 minutes
 b) 45 kg

- ⑫ Dimitar: $15-x$
 Pip: $\frac{20+x}{2}$

- ⑬ a) proof
 b) yes, $8x-4y = 4(2x-y)$
 $2x-y$ is always an integer
 $\therefore 8x-4y$ is always a multiple of 4

⑭ a) $T=4n-5$
 b) $5m-3m=2m$ ✓ identity

⑮ a) 9 days
 b) $T=78y+12$

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