1. Complete the doubling and halving method

$24 = 1 \times 24$

$\times 2 \downarrow \quad \downarrow \div 2$

$24 = 2 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

$24 = 4 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

$24 = 8 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

~~$24 = 16 \times 1.5$~~

1.5 is not an integer so 16 is not a factor of 24

2. (a) Complete the doubling and halving method.

$22 = 1 \times 22$

$\times 2 \downarrow \quad \downarrow \div 2$

$22 = 2 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

~~$22 = 4 \times$~~ $\ldots$

(b) Write down **two** factor pairs of 22 ..... × .....

..... × .....

(c) Explain why 4 is not a factor of 22 .....

.....

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(b) Write down **two** factor pairs of 22 ..... × .....

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.....

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3. Complete these doubling and halving methods.

(a) $36 = 1 \times 36$

$\times 2 \downarrow \quad \downarrow \div 2$

$36 = 2 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

$36 = 4 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

~~$36 = 8 \times$~~ $\ldots$

(b) Explain why 8 is not a factor of 36 .....

.....

(c) $40 = 1 \times 40$

$\times 2 \downarrow \quad \downarrow \div 2$

$40 = 2 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

$40 = 4 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

$40 = 8 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

~~$40 = 16 \times$~~

(d) Explain why 16 is not a factor of 40 .....

.....

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3. Complete these doubling and halving methods.

(a) $36 = 1 \times 36$

$\times 2 \downarrow \quad \downarrow \div 2$

$36 = 2 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

$36 = 4 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

~~$36 = 8 \times$~~ $\ldots$

(b) Explain why 8 is not a factor of 36 .....

.....

(c) $40 = 1 \times 40$

$\times 2 \downarrow \quad \downarrow \div 2$

$40 = 2 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

$40 = 4 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

$40 = 8 \times \ldots$

$\times 2 \downarrow \quad \downarrow \div 2$

~~$40 = 16 \times$~~

(d) Explain why 16 is not a factor of 40 .....

.....

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