## Name:

 Class:How to find two numbers based on product and quotient

1. The product of two numbers $a$ and $b$ is 6 . Their difference is 1 find $a$ and $b$.
2. The sum of two numbers $a$ and $b$ is 32 . Their quotient is 7. Find $a$ and $b$.

## mathskills kids

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How to find two numbers based on product and quotient

1. The product of two numbers $a$ and $b$ is 6 . Their difference is 1 find $a$ and $b$.

Let's try to think of two pairs of numbers whose differences is 1

| $1-0=1$ | $4-3=1$ |
| :--- | :--- |
| $2-1=1$ | $5-4=1$ |
| $3-2=1$ | $6-5=1$ |

Now, pick out two pairs of numbers from above with a product of 6

$$
\begin{array}{ll}
1 \times 0=0 & 4 \times 3=12 \\
2 \times 1=2 & 5 \times 4=20 \\
3 \times 2=6 & 6 \times 5=30
\end{array}
$$

You see that, 3 and 2 gives a product of 6 .
So, $a=3$ and $b=2$.
2. The sum of two numbers $a$ and $b$ is 32 . Their quotient is 7. Find $a$ and $b$.

Let's try to think of two pairs of numbers whose difference is 32 .

$$
\begin{array}{ll}
31+1=32 & 26+6=32 \\
30+2=32 & 29+3=32 \\
27+5=32 & 28+4=32
\end{array}
$$

Now, pick out two pairs of numbers from above with a quotient of 7 .

| $31 \div 1=1$ | $28 \div 4=7$ |
| :--- | :--- |
| $30 \div 2=15$ | $27 \div 5=5 R 2$ |
| $29 \div 3=9 R 2$ |  |

You see that, 28 and 4 gives a quotient of 7 .

