

-1. Work out the quotients:

$1 \div 1$

$1 \div 2$

$1 \div 3$

$1 \div 4$

$2 \div 1$

$2 \div 2$

$2 \div 3$

$2 \div 4$

$3 \div 1$

$3 \div 2$

$3 \div 3$

$3 \div 4$

$4 \div 1$

$4 \div 2$

$4 \div 3$

$4 \div 4$

$5 \div 1$

$5 \div 2$

$5 \div 3$

$5 \div 4$

$4 \div 5$

$4 \div 6$

$4 \div 7$

$4 \div 8$

$5 \div 5$

$5 \div 6$

$5 \div 7$

$5 \div 8$

0. Simplify the fractions:

$$\frac{2}{1}$$

$$\frac{4}{1}$$

$$\frac{6}{1}$$

$$\frac{8}{1}$$

$$\frac{2}{2}$$

$$\frac{4}{2}$$

$$\frac{6}{2}$$

$$\frac{8}{2}$$

$$\frac{2}{6}$$

$$\frac{4}{6}$$

$$\frac{6}{6}$$

$$\frac{8}{6}$$

$$\frac{10}{6}$$

$$\frac{20}{6}$$

$$\frac{30}{6}$$

$$\frac{40}{6}$$

$$\frac{10}{42}$$

$$\frac{20}{42}$$

$$\frac{30}{42}$$

$$\frac{40}{42}$$

1. Fill in the missing numbers:

$$\frac{1}{1} = \frac{\square}{1}$$

$$\frac{2}{1} = \frac{\square}{1}$$

$$\frac{3}{1} = \frac{\square}{1}$$

$$\frac{1}{2} = \frac{\square}{2}$$

$$\frac{2}{2} = \frac{\square}{2}$$

$$\frac{3}{2} = \frac{\square}{2}$$

$$\frac{1}{1} = \frac{\square}{2}$$

$$\frac{2}{1} = \frac{\square}{2}$$

$$\frac{3}{1} = \frac{\square}{2}$$

$$\frac{2}{2} = \frac{\square}{1}$$

$$\frac{4}{2} = \frac{\square}{1}$$

$$\frac{6}{2} = \frac{\square}{1}$$

$$\frac{1}{1} = \frac{\square}{3}$$

$$\frac{2}{1} = \frac{\square}{3}$$

$$\frac{3}{1} = \frac{\square}{3}$$

$$\frac{2}{2} = \frac{\square}{3}$$

$$\frac{4}{2} = \frac{\square}{3}$$

$$\frac{6}{2} = \frac{\square}{3}$$

$$\frac{3}{6} = \frac{\square}{2}$$

$$\frac{6}{6} = \frac{\square}{2}$$

$$\frac{9}{6} = \frac{\square}{2}$$

$$\frac{2}{2} = \frac{\square}{6}$$

$$\frac{4}{2} = \frac{\square}{6}$$

$$\frac{6}{2} = \frac{\square}{6}$$

$$\frac{3}{6} = \frac{\square}{12}$$

$$\frac{6}{6} = \frac{\square}{12}$$

$$\frac{9}{6} = \frac{\square}{12}$$

$$\frac{3}{2} = \frac{\square}{6}$$

$$\frac{5}{2} = \frac{\square}{6}$$

$$\frac{7}{2} = \frac{\square}{6}$$

$$\frac{\square}{1} = \frac{1}{1}$$

$$\frac{\square}{1} = \frac{2}{1}$$

$$\frac{\square}{1} = \frac{3}{1}$$

$$\frac{\square}{2} = \frac{1}{2}$$

$$\frac{\square}{2} = \frac{2}{2}$$

$$\frac{\square}{2} = \frac{3}{2}$$

$$\frac{\square}{1} = \frac{2}{2}$$

$$\frac{\square}{1} = \frac{4}{2}$$

$$\frac{\square}{1} = \frac{6}{2}$$

$$\frac{\square}{2} = \frac{2}{1}$$

$$\frac{\square}{2} = \frac{4}{1}$$

$$\frac{\square}{2} = \frac{6}{1}$$

$$\frac{\square}{1} = \frac{3}{3}$$

$$\frac{\square}{1} = \frac{6}{3}$$

$$\frac{\square}{1} = \frac{9}{3}$$

$$\frac{\square}{2} = \frac{3}{3}$$

$$\frac{\square}{2} = \frac{6}{3}$$

$$\frac{\square}{2} = \frac{9}{3}$$

$$\frac{\square}{6} = \frac{3}{2}$$

$$\frac{\square}{6} = \frac{6}{2}$$

$$\frac{\square}{6} = \frac{9}{2}$$

$$\frac{2}{\square} = \frac{6}{6}$$

$$\frac{4}{\square} = \frac{6}{6}$$

$$\frac{6}{\square} = \frac{6}{6}$$

$$\frac{3}{\square} = \frac{6}{12}$$

$$\frac{6}{\square} = \frac{6}{12}$$

$$\frac{9}{\square} = \frac{6}{12}$$

$$\frac{3}{2} = \frac{6}{\square}$$

$$\frac{5}{2} = \frac{10}{\square}$$

$$\frac{7}{2} = \frac{21}{\square}$$

2. Evaluate the expressions

0^0

0^1

0^2

0^3

1^0

1^1

1^2

1^3

2^0

2^1

2^2

2^3

3^0

3^1

3^2

3^3

4^0

4^1

4^2

4^3

$\frac{1^1}{1^1}$

$\frac{1^2}{1^1}$

$\frac{1^3}{1^1}$

$\frac{1^4}{1^1}$

$\frac{2^1}{1^1}$

$\frac{2^2}{1^1}$

$\frac{2^3}{1^1}$

$\frac{2^4}{1^1}$

$$\frac{1^1}{2^1}$$

$$\frac{1^2}{2^1}$$

$$\frac{1^3}{2^1}$$

$$\frac{1^4}{2^1}$$

$$\frac{2^1}{2^1}$$

$$\frac{2^2}{2^1}$$

$$\frac{2^3}{2^1}$$

$$\frac{2^4}{2^1}$$

$$\frac{1^1}{2^2}$$

$$\frac{1^2}{2^2}$$

$$\frac{1^3}{2^2}$$

$$\frac{1^4}{2^2}$$

$$\frac{2^1}{2^2}$$

$$\frac{2^2}{2^2}$$

$$\frac{2^3}{2^2}$$

$$\frac{2^4}{2^2}$$

$$\frac{1^1+1}{2^2}$$

$$\frac{1^2+1}{2^2}$$

$$\frac{1^3+1}{2^2}$$

$$\frac{1^4+1}{2^2}$$

$$\frac{2^1+1}{2^2}$$

$$\frac{2^2+1}{2^2}$$

$$\frac{2^3+1}{2^2}$$

$$\frac{2^4+1}{2^2}$$

$$\frac{1^1+2}{2^2}$$

$$\frac{1^2+2}{2^2}$$

$$\frac{1^3+2}{2^2}$$

$$\frac{1^4+2}{2^2}$$

$$\frac{2^1+2}{2^2}$$

$$\frac{2^2+2}{2^2}$$

$$\frac{2^3+2}{2^2}$$

$$\frac{2^4+2}{2^2}$$

$$\frac{1^1+1}{2^2+1}$$

$$\frac{1^2+1}{2^2+1}$$

$$\frac{1^3+1}{2^2+1}$$

$$\frac{1^4+1}{2^2+1}$$

$$\frac{2^1+1}{2^2+3^2}$$

$$\frac{2^2+1}{2^2+3^2}$$

$$\frac{2^3+1}{2^2+3^2}$$

$$\frac{2^4+1}{2^2+3^2}$$

$$\frac{1^1+2}{2^2 \times 3}$$

$$\frac{1^2+2}{2^2 \times 3}$$

$$\frac{1^3+2}{2^2 \times 3}$$

$$\frac{1^4+2}{2^2 \times 3}$$