



Egyptian unit fractions

PRACTICE WORKSHEET

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Name: _____ Date: _____

Show your working in the blank space or on separate paper. Sketch labelled rods/beads when asked to represent a number.

Use distinct unit fractions; each selected denominator may be used once.

1 Build $5/6$ from distinct unit fractions.

2 Build $6/8$ from distinct unit fractions.

3 Build $7/12$ from distinct unit fractions.

4 Build $9/18$ from distinct unit fractions.

5 Build $10/24$ from distinct unit fractions.

6 Build $10/16$ from distinct unit fractions.

7 Build $11/24$ from distinct unit fractions.

8 Build $16/48$ from distinct unit fractions.

9 Build $5/6$ from distinct unit fractions.

10 Build $6/8$ from distinct unit fractions.

11 Build $7/12$ from distinct unit fractions.

12 Build $9/18$ from distinct unit fractions.

Practise interactively and explore the method:

<https://goofergames.com/math/world/egyptian-fractions>



Egyptian unit fractions

ANSWER KEY

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Use after completing the practice page. Values are generated by the page's shared engine.

Equivalent exact representations are valid where the prompt allows them. Non-integer results are rounded to two decimals.

1 Answer: 1/2 and 1/3

With denominator 6: $3/6 + 2/6 = 5/6$.

2 Answer: 1/2 and 1/4

With denominator 8: $4/8 + 2/8 = 6/8$.

3 Answer: 1/3 and 1/4

With denominator 12: $4/12 + 3/12 = 7/12$.

4 Answer: 1/3 and 1/6

With denominator 18: $6/18 + 3/18 = 9/18$.

5 Answer: 1/4 and 1/6

With denominator 24: $6/24 + 4/24 = 10/24$.

6 Answer: 1/2 and 1/8

With denominator 16: $8/16 + 2/16 = 10/16$.

7 Answer: 1/3 and 1/8

With denominator 24: $8/24 + 3/24 = 11/24$.

8 Answer: 1/4 and 1/12

With denominator 48: $12/48 + 4/48 = 16/48$.

9 Answer: 1/2 and 1/3

With denominator 6: $3/6 + 2/6 = 5/6$.

10 Answer: 1/2 and 1/4

With denominator 8: $4/8 + 2/8 = 6/8$.

11 Answer: 1/3 and 1/4

With denominator 12: $4/12 + 3/12 = 7/12$.

12 Answer: 1/3 and 1/6

With denominator 18: $6/18 + 3/18 = 9/18$.

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