

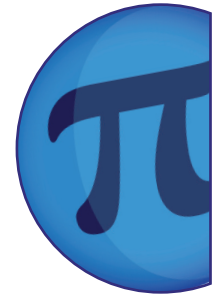


Fractions: Pythagorean Tuning

NAME:

CLASS:

DATE:



Basic

1) Calculate the following:

a) $\frac{1}{2}$ of 16

b) $\frac{1}{4}$ of 16

c) $\frac{1}{8}$ of 16

d) $\frac{1}{16}$ of 16

2) Calculate the following:

a) $\frac{1}{3}$ of 81

b) $\frac{1}{9}$ of 81

c) $\frac{1}{27}$ of 81

d) $\frac{1}{81}$ of 81

3) Calculate the following:

a) $\frac{1}{7}$ of 14

b) $\frac{2}{7}$ of 14

c) $\frac{3}{7}$ of 14

d) $\frac{4}{7}$ of 14

e) $\frac{5}{7}$ of 14

f) $\frac{6}{7}$ of 14

g) $\frac{7}{7}$ of 14



Fractions: Pythagorean Tuning

Basic

4) Calculate the following:

a) $\frac{1}{8}$ of 40

b) $\frac{2}{8}$ of 40

c) $\frac{3}{8}$ of 40

d) $\frac{4}{8}$ of 40

e) $\frac{5}{8}$ of 40

f) $\frac{6}{8}$ of 40

g) $\frac{7}{8}$ of 40

h) $\frac{8}{8}$ of 40

5) Calculate:

a) $\frac{1}{2}$ of $\frac{1}{2}$

b) $\frac{1}{2}$ of $\frac{1}{6}$

c) $\frac{1}{2}$ of $\frac{1}{8}$

d) $\frac{1}{2}$ of $\frac{1}{10}$

6) Calculate:

a) $\frac{1}{2}$ of $\frac{1}{3}$

b) $\frac{1}{2}$ of $\frac{1}{5}$

c) $\frac{1}{2}$ of $\frac{1}{7}$

d) $\frac{1}{2}$ of $\frac{1}{9}$

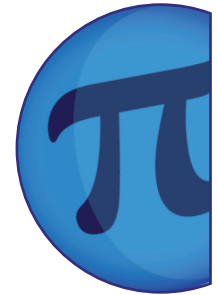


Fractions: Pythagorean Tuning

NAME:

CLASS:

DATE:



Core

1) Calculate:

a) $\frac{1}{2}$ of $\frac{1}{2}$

b) $\frac{1}{2}$ of $\frac{1}{6}$

c) $\frac{1}{2}$ of $\frac{1}{8}$

d) $\frac{1}{2}$ of $\frac{1}{10}$

2) Calculate:

a) $\frac{1}{2}$ of $\frac{1}{3}$

b) $\frac{1}{2}$ of $\frac{1}{5}$

c) $\frac{1}{2}$ of $\frac{1}{7}$

d) $\frac{1}{2}$ of $\frac{1}{9}$

3) Calculate:

a) $\frac{1}{2} \times \frac{1}{2}$

b) $\frac{1}{2} \times \frac{1}{6}$

c) $\frac{1}{2} \times \frac{1}{8}$

d) $\frac{1}{2} \times \frac{1}{10}$

4) Calculate:

a) $\frac{1}{2} \times \frac{1}{3}$

b) $\frac{1}{2} \times \frac{1}{5}$

c) $\frac{1}{2} \times \frac{1}{7}$

d) $\frac{1}{2} \times \frac{1}{9}$



Fractions: Pythagorean Tuning

Core

5) Calculate:

a) $\frac{2}{5} \times \frac{2}{3}$

b) $\frac{3}{7} \times \frac{3}{5}$

c) $\frac{2}{3} \times \frac{5}{7}$

d) $\frac{5}{8} \times \frac{3}{4}$

6) Calculate:

a) $\frac{2}{3} \times \frac{3}{5}$

b) $\frac{3}{10} \times \frac{4}{5}$

c) $\frac{2}{3} \times \frac{3}{7}$

d) $\frac{3}{11} \times \frac{5}{6}$

7) Calculate:

a) $\left(\frac{1}{2}\right)^2$

b) $\left(\frac{2}{3}\right)^2$

c) $\left(\frac{5}{7}\right)^2$

d) $\left(\frac{2}{5}\right)^2$

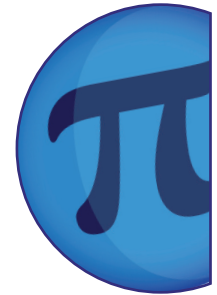


Fractions: Pythagorean Tuning

NAME:

CLASS:

DATE:



Advanced

1) Calculate:

a) $\frac{1}{2} \times \frac{1}{2}$

b) $\frac{1}{2} \times \frac{1}{6}$

c) $\frac{1}{2} \times \frac{1}{8}$

d) $\frac{1}{2} \times \frac{1}{10}$

2) Calculate:

a) $\frac{1}{2} \times \frac{1}{3}$

b) $\frac{1}{2} \times \frac{1}{5}$

c) $\frac{1}{2} \times \frac{1}{7}$

d) $\frac{1}{2} \times \frac{1}{9}$

3) Calculate:

a) $\frac{2}{5} \times \frac{2}{3}$

b) $\frac{3}{7} \times \frac{3}{5}$

c) $\frac{2}{3} \times \frac{5}{7}$

d) $\frac{5}{8} \times \frac{3}{4}$

4) Calculate:

a) $\frac{2}{3} \times \frac{3}{5}$

b) $\frac{3}{10} \times \frac{4}{5}$

c) $\frac{2}{3} \times \frac{3}{7}$

d) $\frac{3}{11} \times \frac{5}{6}$

5) Calculate:

a) $\left(\frac{1}{2}\right)^2$

b) $\left(\frac{2}{3}\right)^2$

c) $\left(\frac{5}{7}\right)^2$

d) $\left(\frac{2}{5}\right)^2$



Fractions: Pythagorean Tuning

Advanced

6) Calculate:

a) $1 \div \frac{1}{5}$

b) $1 \div \frac{1}{8}$

c) $3 \div \frac{3}{7}$

d) $5 \div \frac{5}{6}$

7) Calculate:

a) $\frac{2}{3} \div \frac{3}{5}$

b) $\frac{3}{10} \div \frac{4}{5}$

c) $\frac{2}{3} \div \frac{3}{7}$

d) $\frac{3}{11} \div \frac{5}{6}$

8) Calculate:

a) $\sqrt{\frac{9}{16}}$

b) $\sqrt{\frac{4}{25}}$

c) $\sqrt{\frac{16}{81}}$

d) $\sqrt{\frac{36}{121}}$



Fractions: Pythagorean Tuning

ANSWERS

Basic

- | | | | | | | | |
|---------------------|-------------------|-------------------|-------------------|-------|-------|-------|-------|
| 1) a) 8 | b) 4 | c) 2 | d) 1 | | | | |
| 2) a) 27 | b) 9 | c) 3 | d) 1 | | | | |
| 3) a) 2 | b) 4 | c) 6 | d) 8 | e) 10 | f) 12 | g) 14 | |
| 4) a) 5 | b) 10 | c) 15 | d) 20 | e) 25 | f) 30 | g) 35 | h) 40 |
| 5) a) $\frac{1}{4}$ | b) $\frac{1}{2}$ | c) $\frac{1}{16}$ | d) $\frac{1}{20}$ | | | | |
| 6) a) $\frac{1}{6}$ | b) $\frac{1}{10}$ | c) $\frac{1}{14}$ | d) $\frac{1}{18}$ | | | | |

Core

- | | | | |
|----------------------|-------------------|--------------------|--------------------|
| 1) a) $\frac{1}{4}$ | b) $\frac{1}{2}$ | c) $\frac{1}{16}$ | d) $\frac{1}{20}$ |
| 2) a) $\frac{1}{6}$ | b) $\frac{1}{10}$ | c) $\frac{1}{14}$ | d) $\frac{1}{18}$ |
| 3) a) $\frac{1}{4}$ | b) $\frac{1}{2}$ | c) $\frac{1}{16}$ | d) $\frac{1}{20}$ |
| 4) a) $\frac{1}{6}$ | b) $\frac{1}{10}$ | c) $\frac{1}{14}$ | d) $\frac{1}{18}$ |
| 5) a) $\frac{4}{15}$ | b) $\frac{9}{35}$ | c) $\frac{10}{21}$ | d) $\frac{15}{32}$ |
| 6) a) $\frac{2}{5}$ | b) $\frac{6}{25}$ | c) $\frac{2}{7}$ | d) $\frac{5}{22}$ |
| 7) a) $\frac{1}{4}$ | b) $\frac{4}{9}$ | c) $\frac{25}{49}$ | d) $\frac{4}{25}$ |



Fractions: Pythagorean Tuning

ANSWERS

Advanced

1) a) $\frac{1}{4}$

b) $\frac{1}{2}$

c) $\frac{1}{16}$

d) $\frac{1}{20}$

2) a) $\frac{1}{6}$

b) $\frac{1}{10}$

c) $\frac{1}{14}$

d) $\frac{1}{18}$

3) a) $\frac{4}{15}$

b) $\frac{9}{35}$

c) $\frac{10}{21}$

d) $\frac{15}{32}$

4) a) $\frac{2}{5}$

b) $\frac{6}{25}$

c) $\frac{2}{7}$

d) $\frac{5}{22}$

5) a) $\frac{1}{4}$

b) $\frac{4}{9}$

c) $\frac{25}{49}$

d) $\frac{4}{25}$

6) a) 5

b) 8

c) 7

d) 6

7) a) $\frac{10}{9}$

b) $\frac{3}{8}$

c) $\frac{14}{9}$

d) $\frac{18}{55}$

8) a) $\frac{3}{4}$

b) $\frac{2}{5}$

c) $\frac{4}{9}$

d) $\frac{6}{11}$