

a stem school

math skills sharpeners

2025 summer math workbook

A STEM School



Home of the Space Generation

2025 summer math skills sharpener *going to seventh grade*

student's name	date
teacher coming from	score
teacher going to	
parent's signature	date received

SKILLS SHARPENER FOR STUDENTS GOING TO SEVENTH SCHOOL GRADE MATH

WEEK 1.

Day 1 - Write the numbers in **numerals** and in **words**.

a)

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Units
○ ○	○ ○ ○ ○	○ ○ ○ ○ ○ ○	○	○ ○ ○	○ ○ ○ ○ ○ ○

Numerals: _____

Words: _____

b) Eight hundred and thirty-nine thousand, one hundred and sixty-eight

Numerals: _____

c) Three hundred and eighty thousand, five hundred and twenty

Numerals: _____

d) 605,453

Words: _____

e) 857,300

Words: _____

Day 2 - Write the value of the underlined number.

a) 745,836 - _____

b) 18,605 - _____

c) 285,765 - _____

d) 890, 001 - _____

e) 146,489 - _____

f) 207,624 - _____

g) 271,856 - _____

h) 407,059 - _____

Day 3

a) Write > or < to compare numbers.

1) 654,098 _____ 654,015

2) 128,915 _____ 281,000

3) 931,400 _____ 913,741

4) 479,123 _____ 794, 321

5) 690,000 _____ 649,810

6) 204,999 _____ 240,61

b) Arrange these numbers in **increasing** order.

179,618 719,816 17,999 791,618

c) Arrange these numbers in **decreasing** order.

554,960 54,898 118,950 45,889

Day 4 – Count on or back. Then fill in the blanks to complete the number sequence.

- a) 165,354 157,354 149,354 _____ _____
- b) 138,450 148,450 _____ _____ 178,450
- c) _____ 342,670 336,670 330,670 _____
- d) 153,417 153,419 153,422 _____ 153,431

WEEK 2.

Day 1 – Round to the nearest ten, to the nearest hundred, and to the nearest thousand in the following table.

Number	Rounded to the nearest ten	Rounded to the nearest hundred	Rounded to the nearest thousand
16,299			
471,905			
56,607			
258,819			

Day 2

a) Fill in the blank with < or > to compare.

- 1) -25 _____ 25 4) -12 _____ -10
- 2) -23 _____ -32 5) -8 _____ -3
- 3) 19 _____ -19 6) 40 _____ -41

b) Fill in the missing numbers.

- 1) -18, -12, -6, 0, 6, _____, _____
- 2) 5, 3, 1, -1, -3, _____, _____
- 3) -29, -24, _____, -14, -9, _____

Day 3

a) Write the factors for each number.

1) 5 - _____

2) 18 - _____

3) 30 - _____

4) 41 - _____

Which numbers are prime numbers? _____

b) Write the first ten multiples of each number and then fill in the blanks.

6 - _____

9 - _____

Some common multiples of 6 and 9 are _____.

Day 4-

a) Multiply the following numbers.

$$\begin{array}{r} 5029 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b) } 813 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c) } 325 \\ \times 78 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d) } 602 \\ \times 27 \\ \hline \end{array}$$

WEEK 3.

Day 1- Divide the following numbers and find the remainder.

$$4\sqrt{530}$$

$$5\sqrt{317}$$

$$12\sqrt{864}$$

$$15\sqrt{540}$$

Day 2 – Fill in the blanks with an equivalent fraction.

a) $\frac{7}{8} = \frac{\quad}{24}$

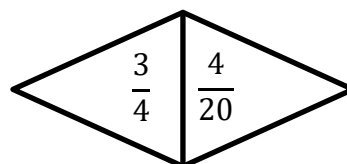
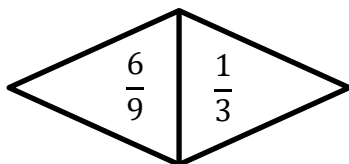
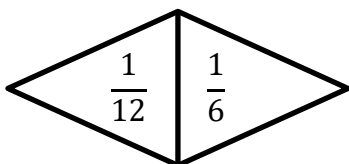
c) $\frac{1}{5} = \frac{5}{\quad}$

b) $\frac{15}{20} = \frac{\quad}{4}$

d) $\frac{25}{100} = \frac{5}{\quad}$

Day 3

a) Circle the greater fraction.



b) Arrange the following fractions in order. Begin with the **smallest** fraction.

$\frac{2}{3}$ $\frac{1}{6}$ $\frac{5}{12}$ _____

Day 4 – Write each improper fraction as a mixed number.

a) $\frac{19}{3} =$

d) $\frac{41}{5} =$

b) $\frac{27}{5} =$

e) $\frac{59}{8} =$

c) $\frac{36}{5} =$

f) $\frac{15}{4} =$

WEEK 4.

Day 1- Find the value of each of the following.

a) $\frac{1}{4}$ of 16 = _____

d) $\frac{3}{5}$ of 25 = _____

b) $\frac{7}{10}$ of 70 = _____

e) $\frac{3}{100}$ of 200 = _____

c) $\frac{1}{3}$ of 24 = _____

f) $\frac{4}{10}$ of 100 = _____

Day 2 - Write a decimal number for each of the following.

Units	.	Tenths
		○ ○ ○ ○

Units	.	Tenths
○		○ ○

Tens	Units	.	Tenths
○	○ ○ ○		○

Tens	Units	.	Tenths
○ ○			○ ○ ○ ○

Day 3 – Write each of the following as a decimal

- a) 9 hundredths - _____
- b) 87 hundredths - _____
- c) 3 tenths 4 hundredths - _____
- d) 34 hundredths - _____
- e) 10 tenths 91 hundredths - _____
- f) 260 hundredths - _____

Day 4 – Fill in the blank with >, < or =.

- a) 3.4 _____ 0.34
- b) 0.49 _____ 0.94
- c) 26.1 _____ 26.01
- d) 9.15 _____ 9.5
- e) 4.1 _____ 4.10
- f) 48.9 _____ 49

WEEK 5.

Day 1 – Arrange the decimals in **increasing** order.

- a) 57.75 70.57 5.07 50.75 70.75
- _____

- b) 112.30 102.03 121.33 102.3 112.03
- _____

- c) 21.03 210.3 21.1 213.1 21.3
- _____

Day 2 – Arrange the decimals in **decreasing** order.

a) 8.89 9.89 89.80 80.9 90.89

b) 20.50 25.20 20.05 52.05 50.25

c) 158.81 118.14 158.18 181.14 185.18

Day 3 – Complete the number sequence.

a) 6.69 6.79 6.89 _____ _____

b) 49.81 49.41 49.01 _____ _____

c) 73.12 73.09 73.06 _____ _____

d) 6.9 7.3 _____ 8.1 _____

Day 4 – Rounding each number to the nearest tenth.

a) 7.62 - _____

e) 9.12 - _____

b) 10.48 - _____

f) 13.47 - _____

c) 0.67 - _____

g) 1.67 - _____

d) 34.45 - _____

h) 54.95 - _____

WEEK 6.

Day 1 – Round each number to the nearest whole number.

a) 90.8 - _____

e) 4.3 - _____

b) 65.5 - _____

f) 60.05 - _____

c) 71.45 - _____

g) 240.99 - _____

d) 89.89 - _____

h) 8.97 - _____

Day 2 – Find the sum of the following decimals.

a)
$$\begin{array}{r} 1.24 \\ + 5.72 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 7.43 \\ + 6.30 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 0.42 \\ + 8.13 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 8.07 \\ + 6 \\ \hline \end{array}$$

e) $2.5 + 5.92 = \underline{\hspace{2cm}}$

f) $0.71 + 8.55 = \underline{\hspace{2cm}}$

Day 3 – Find the difference of the following decimals.

a)
$$\begin{array}{r} 6.52 \\ - 2.01 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 4.34 \\ - 1.25 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 7.95 \\ - 4.7 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 9.07 \\ - 3 \\ \hline \end{array}$$

f) $0.96 - 0.48 = \underline{\hspace{2cm}}$

f) $7 - 1.37 = \underline{\hspace{2cm}}$

Day 4 – Find the product of each of the following.

a)
$$\begin{array}{r} 0.5 \\ \times 3 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 24.8 \\ \times 5 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 36.2 \\ \times 7 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 4.9 \\ \times 4 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 0.33 \\ \times 9 \\ \hline \end{array}$$

WEEK 7.

Day 1 – Multiply the following decimals by 10 and 100.

a) $1.8 \times 10 = \underline{\hspace{2cm}}$

e) $0.3 \times 100 = \underline{\hspace{2cm}}$

b) $56.2 \times 10 = \underline{\hspace{2cm}}$

f) $100 \times 4.5 = \underline{\hspace{2cm}}$

c) $19.4 \times 10 = \underline{\hspace{2cm}}$

g) $2.4 \times 100 = \underline{\hspace{2cm}}$

d) $9.85 \times 10 = \underline{\hspace{2cm}}$

h) $41.26 \times 100 = \underline{\hspace{2cm}}$

Day 2 – Find the quotient for each of the following.

a) $6\sqrt{76.2}$

b) $9\sqrt{13.5}$

c) $6\sqrt{34.2}$

d) $4\sqrt{90}$

e) $7\sqrt{29.4}$

Day 3 – Solve the following word problems.

- a) Mrs. Mendez bought 48.5 kg of vegetables. She shared them equally with 4 of her friends. What was the mass of the vegetables each person received?
- b) Sofia filled 7 cups with 12.4 ℓ of juice. How much juice was there in each cup if they each had the same amount of juice? Round your answer to 1 decimal place.

Day 4 – Divide the following decimals by 10 and 100.

a) $6.2 \div 10 =$ _____

e) $80.2 \div 100 =$ _____

b) $5.6 \div 10 =$ _____

f) $31.40 \div 100 =$ _____

c) $81.7 \div 10 =$ _____

g) $4820 \div 100 =$ _____

d) $17 \div 10 =$ _____

h) $6 \div 100 =$ _____

WEEK 8.

Day 1 – Write each fraction as a decimal.

a) $\frac{9}{20} =$

d) $\frac{72}{100} =$

b) $2\frac{3}{10} =$

e) $4\frac{64}{100} =$

c) $\frac{6}{100} =$

f) $\frac{3}{4} =$

Day 2 – Express each of the following decimals as a fraction in its simplest form.

a) $0.7 =$ _____

e) $3.75 =$ _____

b) $0.55 =$ _____

f) $4.05 =$ _____

c) $3.5 =$ _____

g) $0.45 =$ _____

d) $4.28 =$ _____

h) $0.5 =$ _____

Day 3 – Express each division sentence as a fraction.

a) $4 \div 5 =$ _____

b) $15 \div 2 =$ _____

c) $7 \div 10 =$ _____

d) $35 \div 10 =$ _____

e) $5 \div 8 =$ _____

Day 4 – Express each fraction as a division sentence.

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

c) $\frac{9}{10} =$

b) $\frac{6}{5} =$

d) $\frac{10}{18} =$

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