

ELEMENTARY MATH:

Fundamental Skills



- Addition •**
- Subtraction •**
- Multiplication •**
- Division •**
- Fractions •**
- Place Values •**
- Measurements •**
- & More!**

Grades 3-4 (Ages 8-10)

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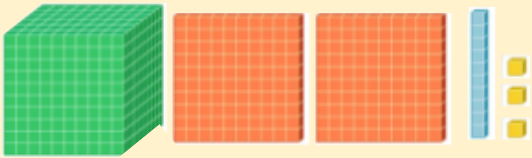
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Answer Key

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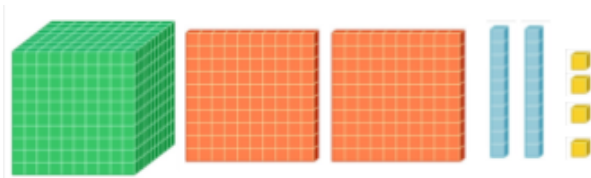


Complete the table by filling in the blank number forms.

	We have 1 'thousands cube' + 2 '100s squares' + 1 'tens rod' + 3 'ones blocks'. This the value of the blocks is: <u>Expanded Form</u> → 1000 + 200 + 10 + 3 <u>Standard Form</u> → 1213
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Write the number formed by different base ten blocks in expanded and standard form.

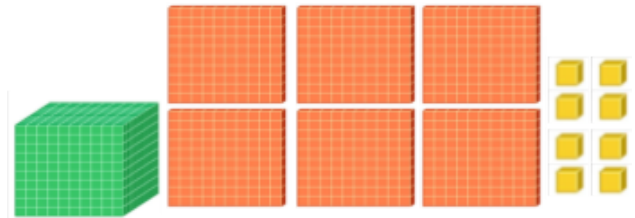
1.



Expanded Form: _____

Standard formed: _____

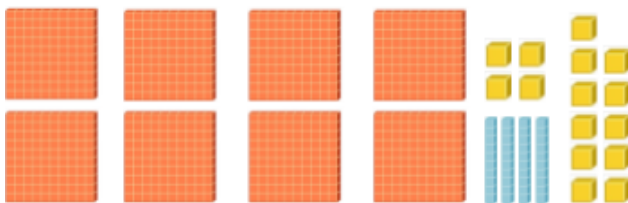
2.



Expanded Form: _____

Standard formed: _____

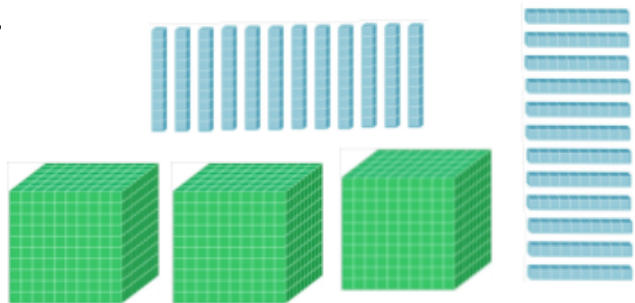
3.



Expanded Form: _____

Standard formed: _____

4.



Expanded Form: _____

Standard formed: _____

Complete the table by filling in the blank number forms.

Word Form	Short Word Form	Standard Form	Expanded Form
Two hundred fifty-nine thousand, one hundred twenty-five	259 thousand, 125	259,125	200,000 + 50,000 + 9,000 + 100 + 20 +5
1.	951 thousand, 8		
2.		408,363	
3.			300,000 + 60,000 + 3000 + 100+10+4
4. Five hundred fifty-seven thousand, five hundred ninety-two			
5. Nine hundred fifty-eight thousand, seven hundred thirty-seven			
6.	448 thousand, 846		
7.		830,777	

Place Values

How much is each digit worth?

Score:

/

Time:

_: _

Determine the value of the underlined number.

843 880 : **800 000**

45 812 : **5000**

156 990 : **6000**

66 024 : **6000**

Write the value of each underlined digit.

1. 45 876 = _____

10. 3 409 = _____

2. 346 876 = _____

11. 22 543 = _____

3. 458 926 = _____

12. 7 743 = _____

4. 3 589 = _____

13. 568 230 = _____

5. 56 838 = _____

14. 344 096 = _____

6. 5 478 = _____

15. 34 764 = _____

7. 56 834 = _____

16. 56 233 = _____

8. 3 206 = _____

17. 67 882 = _____

9. 563 809 = _____

18. 347 23 = _____

Ms. Babni made a fun crossword puzzle for her math students.
Each clue is the word form or expanded form of a specific number.

It is up to you to solve the puzzle by:

- Use the clues to write the standard form of the unknown number.
- Place the numbers in the correct row or column in the puzzle.
- Lastly, order the numbers from biggest to smallest.

- Seventy-four thousand, six hundred twenty-five
- $400,000 + 6000 + 200 + 20$
- Three million, two hundred fifty-five thousand, nineteen
- $5,000,000 + 400,000 + 40,000 + 5000 + 800 + 80 + 4$
- Six hundred five thousand, twenty-one
- $800,000 + 30,000 + 9000 + 4$
- Four hundred forty-five thousand, six hundred, sixty-two
- Two million, three hundred seventy-five thousand, seven hundred, seventy-five

7				6			
		5					
				3			8
		2					
		4					

Ordering
Biggest
Smallest



Skip Counting

By 100's and 150's

Score:
____/____

Time:
____:____

Count by 100’s from 824 to 6324.

824	924		1124			
				1924		
		3124		3324		3524
3624		3824				
		5224		5424		
	5824					6324

Count by 150’s from 0 to 5250. Add 150 to each number

0	150			600	
900	1050				
180		2100			
0					
				4200	
				5100	



Addition

3 Digit Numbers

Score:

___/___

Time:

___:___

Adding vertically is always a good idea!

Rewrite horizontal addition statements vertically

131 + 298 = _____

1

131

+ 298

429

522 + 11 = _____

522

+ 11

533

285 + 9 = _____

1

285

+ 9

942

Rewrite each problem vertically then solve.

1. 897 + 28 = _____	2. 859 + 994 = _____	3. 215 + 948 = _____
4. 897 + 28 = _____	5. 859 + 994 = _____	6. 184 + 21 = _____
7. 556 + 42 = _____	8. 399 + 53 = _____	9. 163 + 892 = _____
10. 222 + 103 = _____	11. 846 + 751 = _____	12. 981 + 717 = _____

Step 1:	Step 2:	Step 3:
$\begin{array}{r} 521 \\ 220 \\ 245 \\ +654 \\ \hline 0 \end{array}$	$\begin{array}{r} \overset{1}{5}21 \\ 220 \\ 245 \\ + 654 \\ \hline 30 \end{array}$	$\begin{array}{r} \overset{11}{5}21 \\ 220 \\ 245 \\ + 654 \\ \hline 1630 \end{array}$

Find each sum.

1. $\begin{array}{r} 356 \\ 155 \\ 486 \\ + 736 \\ \hline \end{array}$	5. $\begin{array}{r} 356 \\ 745 \\ 445 \\ + 809 \\ \hline \end{array}$	9. $\begin{array}{r} 834 \\ 705 \\ 887 \\ + 775 \\ \hline \end{array}$
2. $\begin{array}{r} 478 \\ 367 \\ 226 \\ + 634 \\ \hline \end{array}$	6. $\begin{array}{r} 487 \\ 347 \\ 845 \\ + 845 \\ \hline \end{array}$	10. $\begin{array}{r} 983 \\ 346 \\ 645 \\ + 445 \\ \hline \end{array}$
3. $\begin{array}{r} 367 \\ 356 \\ 743 \\ + 367 \\ \hline \end{array}$	7. $\begin{array}{r} 367 \\ 542 \\ 465 \\ + 354 \\ \hline \end{array}$	11. $\begin{array}{r} 998 \\ 680 \\ 347 \\ + 745 \\ \hline \end{array}$
4. $\begin{array}{r} 356 \\ 220 \\ 245 \\ + 654 \\ \hline \end{array}$	8. $\begin{array}{r} 570 \\ 506 \\ 609 \\ + 426 \\ \hline \end{array}$	12. $\begin{array}{r} 423 \\ 734 \\ 589 \\ + 724 \\ \hline \end{array}$

Subtraction

Subtracting from Whole Thousands

Score:

/

Time:

_: _

$$2000 - 219 = 1781$$

Find the missing numbers.

1. $5000 - 574 = \underline{\hspace{2cm}}$

2. $7000 - 256 = \underline{\hspace{2cm}}$

3. $2000 - 255 = \underline{\hspace{2cm}}$

4. $8000 - 752 = \underline{\hspace{2cm}}$

5. $9000 - 735 = \underline{\hspace{2cm}}$

6. $5000 - 225 = \underline{\hspace{2cm}}$

7. $6000 - 715 = \underline{\hspace{2cm}}$

8. $6000 - 775 = \underline{\hspace{2cm}}$

9. $7000 - 885 = \underline{\hspace{2cm}}$

10. $3000 - 505 = \underline{\hspace{2cm}}$

11. $5000 - 644 = \underline{\hspace{2cm}}$

12. $2000 - 248 = \underline{\hspace{2cm}}$

13. $8000 - 715 = \underline{\hspace{2cm}}$

14. $5000 - 772 = \underline{\hspace{2cm}}$

15. $1000 - 728 = \underline{\hspace{2cm}}$

16. $7000 - 523 = \underline{\hspace{2cm}}$

17. $7000 - 486 = \underline{\hspace{2cm}}$

18. $7000 - 255 = \underline{\hspace{2cm}}$

19. $4000 - 856 = \underline{\hspace{2cm}}$

20. $7000 - 978 = \underline{\hspace{2cm}}$

21. $3000 - 475 = \underline{\hspace{2cm}}$

22. $2000 - 556 = \underline{\hspace{2cm}}$

23. $8000 - 887 = \underline{\hspace{2cm}}$

24. $9000 - 687 = \underline{\hspace{2cm}}$

Find the difference.

1. $\begin{array}{r} 7852 \\ - 5047 \\ \hline 2805 \end{array}$	4. $\begin{array}{r} 8162 \\ - 4855 \\ \hline \end{array}$	7. $\begin{array}{r} 8422 \\ - 6204 \\ \hline \end{array}$
2. $\begin{array}{r} 4129 \\ - 854 \\ \hline \end{array}$	5. $\begin{array}{r} 8541 \\ - 6511 \\ \hline \end{array}$	8. $\begin{array}{r} 6180 \\ - 5482 \\ \hline \end{array}$
3. $\begin{array}{r} 4588 \\ - 650 \\ \hline \end{array}$	6. $\begin{array}{r} 8452 \\ - 6652 \\ \hline \end{array}$	9. $\begin{array}{r} 5410 \\ - 4250 \\ \hline \end{array}$

Questions	Solutions
10. Kenny works at a shoe store. He has 1452 shoes in stock. At the end of the week he sold 569 shoes. How many shoes does he have left in stock?	
11. Jimmy also works at the shoe store. There are 4223 running shoes in stock and he sold 3245 in a month. How many running shoes does Jimmy have left?	
12. The shoe store has 2342 pairs of socks in their inventory. At the end of the week, they sold 544 pairs. How many pairs of socks do they have left?	



Day 10

Multiplication

Finding Products

Score:
____/____

Time:
____:____

Find each product.

1) $11 \times 3 = 33$

11) $6 \times 4 =$

21) $2 \times 1 =$

2) $3 \times 4 =$

12) $6 \times 6 =$

22) $4 \times 7 =$

3) $1 \times 6 =$

13) $4 \times 3 =$

23) $10 \times 3 =$

4) $5 \times 4 =$

14) $0 \times 9 =$

24) $4 \times 6 =$

5) $7 \times 10 =$

15) $10 \times 7 =$

25) $8 \times 7 =$

6) $3 \times 10 =$

16) $9 \times 8 =$

26) $10 \times 9 =$

7) $1 \times 3 =$

17) $4 \times 6 =$

27) $1 \times 4 =$

8) $6 \times 1 =$

18) $4 \times 7 =$

28) $11 \times 12 =$

9) $7 \times 3 =$

19) $4 \times 6 =$

29) $4 \times 11 =$

10) $6 \times 3 =$

20) $3 \times 1 =$

30) $4 \times 5 =$

We know that $2 \times 24 = 48$, so:

$$20 \times \underline{\hspace{2cm}} = 4800 \rightarrow 20 \times \textcolor{red}{240} = 4800$$

We know $2 \times 24 = 48$, and we are short **1 zero**. $\rightarrow \textcolor{red}{240}$

Determine the missing numbers.

1) $30 \times \underline{\hspace{2cm}} = 900$

11) $40 \times \underline{\hspace{2cm}} = 1600$

2) $\underline{\hspace{2cm}} \times 40 = 4000$

12) $60 \times \underline{\hspace{2cm}} = 1200$

3) $\underline{\hspace{2cm}} \times 30 = 1200$

13) $70 \times \underline{\hspace{2cm}} = 4900$

4) $\underline{\hspace{2cm}} \times 110 = 4400$

14) $90 \times \underline{\hspace{2cm}} = 1800$

5) $90 \times \underline{\hspace{2cm}} = 3600$

15) $20 \times \underline{\hspace{2cm}} = 4000$

6) $\underline{\hspace{2cm}} \times 70 = 1400$

16) $\underline{\hspace{2cm}} \times 60 = 2400$

7) $\underline{\hspace{2cm}} \times 400 = 8000$

17) $40 \times \underline{\hspace{2cm}} = 1200$

8) $\underline{\hspace{2cm}} \times 70 = 2800$

18) $60 \times \underline{\hspace{2cm}} = 1800$

9) $60 \times \underline{\hspace{2cm}} = 1200$

19) $60 \times \underline{\hspace{2cm}} = 1200$

10) $\underline{\hspace{2cm}} \times 30 = 6000$

20) $40 \times \underline{\hspace{2cm}} = 800$

Multiplication

Finding Products

Score:

____/____

Time:

____:____

Rewrite each problem vertically and solve it.

1) $5432 \times 4 = \underline{\hspace{2cm}}$

$$\begin{array}{r}
 321 \leftarrow \text{Carry Over Method} \\
 3643 \\
 \times \quad 5 \\
 \hline
 18215
 \end{array}$$

2) $5432 \times 4 = \underline{\hspace{2cm}}$

3) $6534 \times 5 = \underline{\hspace{2cm}}$

4) $6534 \times 3 = \underline{\hspace{2cm}}$

5) $6623 \times 1 = \underline{\hspace{2cm}}$

6) $1436 \times 5 = \underline{\hspace{2cm}}$

7) $1353 \times 5 = \underline{\hspace{2cm}}$

8) $3423 \times 4 = \underline{\hspace{2cm}}$

9) $5432 \times 6 = \underline{\hspace{2cm}}$

10) $7743 \times 3 = \underline{\hspace{2cm}}$

11) $5534 \times 2 = \underline{\hspace{2cm}}$

12) $5313 \times 1 = \underline{\hspace{2cm}}$

Steps:

1. Multiply by the ones place.
2. Place a zero in the ones column.
3. Multiply by the tens place.
4. Add.

$$\begin{array}{r}
 74 \\
 \times 77 \\
 \hline
 518 \leftarrow 7 \times 74 = 518 \\
 + 5180 \leftarrow 70 \times 74 = 5180 \\
 \hline
 5698
 \end{array}$$

Find each product.

$$\begin{array}{r}
 1) \quad 99 \\
 \times 26 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 5) \quad 52 \\
 \times 25 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 9) \quad 63 \\
 \times 72 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 13) \quad 97 \\
 \times 49 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 2) \quad 36 \\
 \times 16 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 6) \quad 25 \\
 \times 64 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 10) \quad 74 \\
 \times 21 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 14) \quad 51 \\
 \times 30 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3) \quad 25 \\
 \times 25 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 7) \quad 25 \\
 \times 69 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 11) \quad 36 \\
 \times 96 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 15) \quad 79 \\
 \times 76 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 4) \quad 36 \\
 \times 43 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 8) \quad 47 \\
 \times 28 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 12) \quad 54 \\
 \times 63 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 16) \quad 98 \\
 \times 68 \\
 \hline
 \end{array}$$

Rewrite each problem vertically and solve it.

Multiply $31 \times 771 \rightarrow$

31
*** 771**

31 ← **1 X 31 = 31**
2170 ← **70 X 31 = 2170**
+ 21700 ← **700 X 31 = 21700**

23901

1) $6577 \times 12 =$ _____

2) $295 \times 356 =$ _____

3) $5435 \times 3 = \underline{\hspace{2cm}}$

4) $524 \times 3 =$ _____

5) $3524 \times 11 =$ _____

6) $7046 \times 8 =$ _____

Find each quotient.

1) $24 \div 12 = 2$

Because $12 \times 2 = 24$.

12) $49 \div 7 =$ _____

2) $40 \div 20 =$ _____

13) $16 \div 4 =$ _____

3) $60 \div 12 =$ _____

14) $45 \div 9 =$ _____

4) $12 \div 6 =$ _____

15) $36 \div 6 =$ _____

5) $24 \div 12 =$ _____

16) $15 \div 3 =$ _____

6) $22 \div 11 =$ _____

17) $65 \div 5 =$ _____

7) $9 \div 3 =$ _____

18) $25 \div 5 =$ _____

8) $54 \div 9 =$ _____

19) $81 \div 3 =$ _____

9) $48 \div 6 =$ _____

20) $64 \div 8 =$ _____

10) $34 \div 17 =$ _____

21) $84 \div 6 =$ _____

11) $30 \div 6 =$ _____

22) $63 \div 3 =$ _____

Long Division

3-Digit by 2-Digit

Score:

/

Time:

_: _

Remember the process:

- ☐ ÷ Divide
- ☐ × Multiply
- ☐ − Subtract
- ☐ ↓ Bring Down
- ☐ Repeat / Remainder

$$\begin{array}{r}
 73 \\
 12 \overline{) 876} \\
 \underline{- 84} \quad \leftarrow 12 \times 7 = 84 \\
 36 \\
 \underline{- 36} \quad \leftarrow 12 \times 3 = 36 \\
 0
 \end{array}$$

Find each quotient and remainder.

1) $15 \overline{) 357}$

5) $51 \overline{) 865}$

9) $60 \overline{) 998}$

13) $61 \overline{) 277}$

2) $13 \overline{) 216}$

6) $21 \overline{) 220}$

10) $49 \overline{) 854}$

14) $38 \overline{) 418}$

3) $45 \overline{) 754}$

7) $40 \overline{) 333}$

11) $25 \overline{) 468}$

15) $67 \overline{) 848}$

4) $52 \overline{) 759}$

8) $29 \overline{) 478}$

12) $53 \overline{) 463}$

16) $87 \overline{) 290}$

Long Division

4-Digit by 2-Digit

Score:

___/___

Time:

___:___

Fill in the missing numbers to solve the long division problem.

Example:

$$\begin{array}{r} 1 \square \square \\ \square \square \overline{) 5559} \\ \underline{5} \\ 55 \\ \underline{50} \\ 50 \\ \underline{50} \\ R \square \end{array}$$

Solution:

$$\begin{array}{r} 111 \\ 50 \overline{) 5559} \\ \underline{50} \\ 55 \\ \underline{50} \\ 50 \\ \underline{50} \\ R 9 \end{array}$$

1)

$$\begin{array}{r} 1 \square \square \\ 2 \square \overline{) 2048} \\ \underline{} \\ 04 \\ \underline{} \\ 48 \\ \underline{40} \\ R 8 \end{array}$$

2)

$$\begin{array}{r} 104 \\ \square \square \overline{) 104 } \\ \underline{} \\ 04 \\ \underline{} \\ 2 \\ \underline{40} \\ R \square \end{array}$$

3)

$$\begin{array}{r} 204 \\ 6 \overline{) } \\ \underline{} \\ 02 \\ \underline{} \\ 24 \\ \underline{24} \\ R 0 \end{array}$$

4)

$$\begin{array}{r} 363 \\ \square \overline{) 2541} \\ \underline{} \\ 4 \\ \underline{} \\ 21 \\ \underline{21} \\ R 0 \end{array}$$

5)

$$\begin{array}{r} 22 \\ 12 \overline{) 1464} \\ \underline{} \\ 2 \\ \underline{} \\ 24 \\ \underline{24} \\ R 0 \end{array}$$

6)

$$\begin{array}{r} 1 \square \square \\ 13 \overline{) 14} \\ \underline{} \\ 101 \\ \underline{91} \\ 10 \\ \underline{10} \\ R 0 \end{array}$$

7)

$$\begin{array}{r}
 \square \square 3 \\
 \square 0 \overline{) 4590} \\
 \underline{- \square \square} \\
 159 \\
 \underline{- 150} \\
 \square \square \\
 \underline{- 90} \\
 R \ 0
 \end{array}$$

8)

$$\begin{array}{r}
 1 \square \square \\
 6 \square \overline{) 6912} \\
 \underline{- \square \square} \\
 51 \\
 \underline{- \square} \\
 51 \square \\
 \underline{- \square 12} \\
 R \ 0
 \end{array}$$

9)

$$\begin{array}{r}
 22 \square \\
 22 \overline{) \square \square 84} \\
 \underline{- \square \square} \\
 \square \square \\
 \underline{- \square \square} \\
 \square \square \\
 \underline{- \square \square} \\
 R \ 0
 \end{array}$$

For each question, translate the diagram into a mixed and improper fraction.

	Mixed Fraction	Improper Fraction
	$2\frac{2}{4}$	$\frac{10}{4}$
1)		
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		

Use GRASS or GRS for the following word problems.

Questions	Solutions
1) Jason has 7 pencils. Four of them do not have erasers at the end. What fraction of pencils do not have erasers at the end?	G: 7 pencils and 4 have no erasers. R: Fraction of non eraser pencils S: $\frac{\text{no erasers}}{\text{total pencils}} = \frac{4}{7}$ non eraser pencils
2) Jokic has a small bag with 14 smarties. In the bag of smarties, 4 of them are brown, 2 are red, 1 is blue, 7 are green. What fraction of smarties are green?	
3) Luka divided an orange into 6 equal pieces. He ate 4 pieces, then put the other 2 in the freezer. What fraction did Luka eat?	
4) Chris has 7 candy bars. He gives one to Devin and one to Ayton. He keeps the rest to himself. What fraction of candy bars does he keep?	
5) Candace makes an apple pie. It was divided into 10 equal slices. Candace ate 3 equal slices and another before school. What fraction of pie did she eat?	

Write > (greater than), < (less than) or = (equal to) between the fractions.

$$\frac{1}{4} < \frac{2}{3}$$

To compare we need our fractions to have the same denominator.

$$\frac{3}{12} < \frac{8}{12}$$

1) $\frac{3}{4}$ $\frac{5}{8}$

2) $\frac{2}{3}$ $\frac{5}{6}$

3) $\frac{5}{8}$ $\frac{1}{2}$

4) $\frac{1}{2}$ $\frac{2}{3}$

5) $\frac{4}{8}$ $\frac{6}{12}$

6) $\frac{4}{8}$ $\frac{2}{3}$

7) $\frac{3}{5}$ $\frac{7}{10}$

8) $\frac{3}{5}$ $\frac{3}{8}$

9) $\frac{3}{5}$ $\frac{4}{9}$

10) $\frac{2}{3}$ $\frac{8}{11}$

11) $\frac{4}{4}$ $\frac{2}{2}$

12) $\frac{1}{3}$ $\frac{3}{10}$

13) $\frac{4}{6}$ $\frac{6}{10}$

14) $\frac{5}{8}$ $\frac{6}{10}$

15) $\frac{6}{10}$ $\frac{4}{9}$

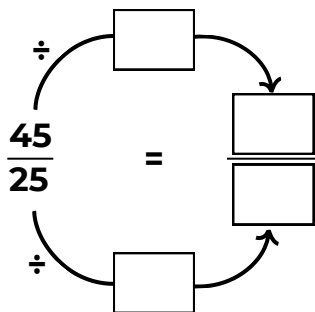
16) $\frac{4}{5}$ $\frac{6}{9}$

17) $\frac{8}{9}$ $\frac{9}{10}$

Simplify each fraction using the GCF method.

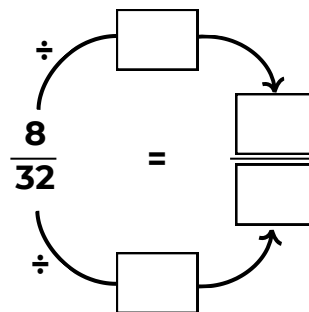
1) $\frac{45}{25}$

The GCF of 45 and 25 = _____



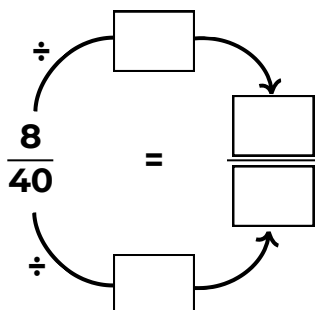
4) $\frac{8}{32}$

The GCF of 8 and 32 = _____



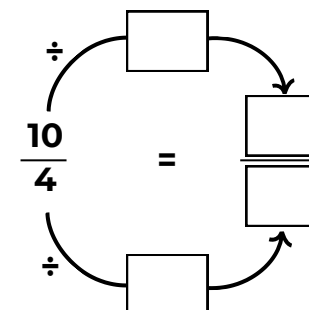
2) $\frac{8}{40}$

The GCF of 8 and 40 = _____



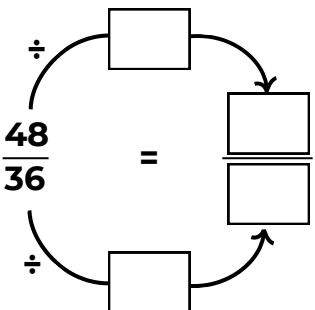
5) $\frac{10}{4}$

The GCF of 10 and 4 = _____



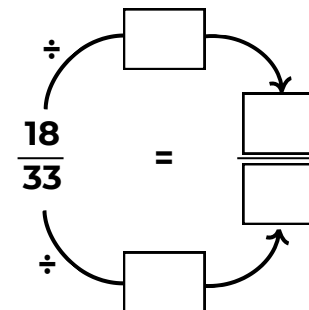
3) $\frac{48}{36}$

The GCF of 48 and 36 = _____



6) $\frac{18}{33}$

The GCF of 18 and 33 = _____



Adding Fractions

Common Denominators

Score:

____/____

Time:

____:____

Adding Fractions with Common Denominators

When the **denominator is the same**, adding is very easy.

1. Add the **numerators** together.
2. Keep the **denominator** the same.
3. **Simplify** if needed.

$$\frac{1}{5} + \frac{3}{5}$$

Add numerators: $1 + 3 = 4$

Keep the denominator the same: 5

$$\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$$

$$\frac{6}{10} + \frac{6}{10} = \frac{12}{10}$$

In this question we still need to **simplify** 12 and 10 by their **GCF 2**.

$$\begin{aligned} \frac{6}{10} + \frac{6}{10} &= \frac{12}{10} \\ &= \frac{6}{5} \end{aligned}$$

Find the sum.

1) $\frac{6}{8} + \frac{4}{8} =$ _____

8) $\frac{10}{14} + \frac{8}{14} =$ _____

15) $\frac{6}{8} + \frac{4}{8} =$ _____

2) $\frac{7}{10} + \frac{8}{10} =$ _____

9) $\frac{15}{16} + \frac{10}{16} =$ _____

16) $\frac{9}{10} + \frac{1}{10} =$ _____

3) $\frac{4}{11} + \frac{7}{11} =$ _____

10) $\frac{10}{14} + \frac{7}{14} =$ _____

17) $\frac{3}{12} + \frac{5}{12} =$ _____

4) $\frac{5}{6} + \frac{3}{6} =$ _____

11) $\frac{1}{11} + \frac{1}{11} =$ _____

18) $\frac{3}{14} + \frac{1}{14} =$ _____

5) $\frac{2}{4} + \frac{1}{4} =$ _____

12) $\frac{5}{13} + \frac{3}{13} =$ _____

19) $\frac{6}{12} + \frac{3}{12} =$ _____

6) $\frac{10}{12} + \frac{11}{12} =$ _____

13) $\frac{3}{8} + \frac{6}{8} =$ _____

20) $\frac{13}{14} + \frac{6}{14} =$ _____

7) $\frac{8}{13} + \frac{10}{13} =$ _____

14) $\frac{2}{6} + \frac{4}{6} =$ _____

21) $\frac{10}{20} + \frac{14}{20} =$ _____

Fill in the blanks.

$$3 - \underline{\hspace{2cm}} = 1\frac{6}{9}$$

$$\frac{27}{9} - \underline{\hspace{1cm}} = \frac{15}{9}$$

$$\frac{27}{9} - \frac{12}{9} = \frac{15}{9}$$

$$3 - \underline{1\frac{1}{3}} = \frac{6}{9}$$

← Convert into improper form

← Keep the denominators the same and **27 - 12 = 15**

← Convert back to mixed form and reduce/simplify.

Find the missing fraction. Show your answers as mixed numbers.

1) $6 - \underline{\hspace{2cm}} = 5\frac{6}{8}$

8) $3 - \underline{\hspace{2cm}} = 2\frac{3}{8}$

2) $3 - \underline{\hspace{2cm}} = 2\frac{1}{15}$

9) $6 - \underline{\hspace{2cm}} = 2\frac{1}{6}$

3) $6 - \underline{\hspace{2cm}} = 2\frac{6}{10}$

10) $6 - \underline{\hspace{2cm}} = 4\frac{3}{7}$

4) $4 - \underline{\hspace{2cm}} = 3\frac{7}{8}$

11) $10 - \underline{\hspace{2cm}} = 2\frac{3}{5}$

5) $6 - \underline{\hspace{2cm}} = 1\frac{3}{4}$

12) $8 - \underline{\hspace{2cm}} = 5\frac{5}{10}$

6) $9 - \underline{\hspace{2cm}} = 3\frac{2}{7}$

13) $6 - \underline{\hspace{2cm}} = 3\frac{1}{9}$

7) $3 - \underline{\hspace{2cm}} = 2\frac{7}{12}$

14) $4 - \underline{\hspace{2cm}} = 2\frac{7}{11}$

Exercise 1

Change the fractions into decimals.

1) $\frac{3}{6} = \frac{1}{2} = 0.5$

5) $\frac{4}{10} =$ _____

9) $6\frac{3}{100} =$ _____

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

6) $12\frac{4}{6} =$ _____

10) $\frac{9}{50} =$ _____

3) $2\frac{7}{14} =$ _____

7) $\frac{1}{4} =$ _____

11) $4\frac{3}{5} =$ _____

4) $\frac{6}{10} =$ _____

8) $\frac{4}{5} =$ _____

12) $120\frac{3}{6} =$ _____

Exercise 2

Change the following decimals to fractions. Simplify where possible.

13) $0.55 =$

$\frac{55}{100} = \frac{11}{20}$

17) $0.32 =$ _____

21) $0.04 =$ _____

14) $0.14 =$ _____

18) $0.82 =$ _____

22) $0.1 =$ _____

15) $5.8 =$ _____

19) $15.50 =$ _____

23) $35.32 =$ _____

16) $0.25 =$ _____

20) $4.4 =$ _____

24) $8.4 =$ _____

Decimal Place Value Chart <table> <tr> <td>One Thousands</td> <td>Hundreds</td> <td>Tens</td> <td>Decimal point</td> <td>Tenths</td> <td>Hundredths</td> <td>One-Thousandths</td> <td>Ten Thousandths</td> <td>Hundred-Thousandths</td> <td>One-Millionths</td> </tr> <tr> <td></td> <td></td> <td></td> <td>.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										One Thousands	Hundreds	Tens	Decimal point	Tenths	Hundredths	One-Thousandths	Ten Thousandths	Hundred-Thousandths	One-Millionths				.							0.58 1.0 Whole Number Rounding to a whole number means that we don't want any decimal places.	23.58 23.6 Tenths • 5 is in tenth place. • 8 is greater than 5. So 5 becomes a 6 and 8 becomes 0 (which we don't put)
One Thousands	Hundreds	Tens	Decimal point	Tenths	Hundredths	One-Thousandths	Ten Thousandths	Hundred-Thousandths	One-Millionths																						
			.																												

Round each number to the nearest place indicated.

- | | | | | | |
|-------------|-------|--------------|--------------|-------|--------------|
| 1) 8.0 | _____ | Whole Number | 11) 467. 474 | _____ | Hundredth |
| 2) 0. 303 | _____ | Hundredth | 12) 36. 462 | _____ | Tenth |
| 3) 6.14 | _____ | Tenth | 13) 354. 72 | _____ | Tenth |
| 4) 76. 0825 | _____ | Whole Number | 14) 35. 73 | _____ | Whole Number |
| 5) 6.25 | _____ | Tenth | 15) 4. 5688 | _____ | Tenth |
| 6) 5. 854 | _____ | Whole Number | 16) 0. 5518 | _____ | Tenth |
| 7) 5. 148 | _____ | Whole Number | 17) 851. 21 | _____ | Whole Number |
| 8) 6. 4256 | _____ | Hundredth | 18) 35. 775 | _____ | Tenth |
| 9) 9. 842 | _____ | Hundredth | 19) 35. 087 | _____ | Whole Number |
| 10) 45. 778 | _____ | Whole Number | 20) 53. 505 | _____ | Whole Number |

Find the sum or difference.

$$\begin{array}{r} 1) \quad 47.25 \\ - 26.25 \\ \hline 21.00 \end{array}$$

$$\begin{array}{r} 7) \quad 86.46 \\ + 53.73 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 86.46 \\ + 33.90 \\ \hline \end{array}$$

$$\begin{array}{r} 19) \quad 46.80 \\ + 36.09 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 46.36 \\ - 15.36 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 46.63 \\ + 23.36 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 67.80 \\ - 40.08 \\ \hline \end{array}$$

$$\begin{array}{r} 20) \quad 87.24 \\ + 75.42 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 53.76 \\ + 24.46 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 90.65 \\ - 23.75 \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 86.46 \\ + 73.62 \\ \hline \end{array}$$

$$\begin{array}{r} 21) \quad 82.22 \\ + 64.24 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 47.35 \\ + 46.36 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 86.24 \\ + 74.35 \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad 75.98 \\ + 35.73 \\ \hline \end{array}$$

$$\begin{array}{r} 22) \quad 46.35 \\ - 28.33 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 50.07 \\ - 13.56 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 86.25 \\ + 47.77 \\ \hline \end{array}$$

$$\begin{array}{r} 17) \quad 86.44 \\ - 58.99 \\ \hline \end{array}$$

$$\begin{array}{r} 23) \quad 35.77 \\ - 16.00 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 23.76 \\ + 48.34 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 74.24 \\ - 38.44 \\ \hline \end{array}$$

$$\begin{array}{r} 18) \quad 55.66 \\ + 49.76 \\ \hline \end{array}$$

$$\begin{array}{r} 24) \quad 50.80 \\ - 50.00 \\ \hline \end{array}$$

Fill in the empty blocks with the correct number or operation (+ or -).
The first puzzle has been solved for you.

1.

5	+	9	=	14
+		+		+
1	+	11	=	12
=		=		=
6	+	20	=	26

2.

22		3	=	25
-		+		
6	-	1	=	5
=		=		=
	+		=	20

3.

	+	7	=	24
-		+		
16	-		=	14
=		=		=
	+		=	10

4.

22	-	3	=	
-		+		-
7		4	=	
=		=		=
	-		=	8

5.

22	+		=	27
-		+		-
	-		=	
=		=		=
12		11	=	23

6.

7	+		=	23
+		+		-
	-	6	=	
=		=		=
	-		=	7

Fill in the blanks for each fact family.

1. $11 \times 10 = 110$

$10 \times 11 = \mathbf{110}$

$\mathbf{110} \div 10 = 11$

$\mathbf{110} \div 11 = 10$

6. $11 \times 11 = 121$

$11 \times \underline{\hspace{1cm}} = 121$

$121 \div 11 = \underline{\hspace{1cm}}$

$121 \div \underline{\hspace{1cm}} = 11$

11. $9 \times 8 = 72$

$8 \times \underline{\hspace{1cm}} = 72$

$72 \div 8 = \underline{\hspace{1cm}}$

$72 \div 9 = \underline{\hspace{1cm}}$

16. $13 \times 13 = 169$

$13 \times \underline{\hspace{1cm}} = 169$

$169 \div \underline{\hspace{1cm}} = 13$

$169 \div 13 = \underline{\hspace{1cm}}$

2. $11 \times 8 = 88$

$8 \times 11 = \underline{\hspace{1cm}}$

$88 \div \underline{\hspace{1cm}} = 11$

$88 \div 11 = \underline{\hspace{1cm}}$

7. $9 \times 9 = 81$

$\underline{\hspace{1cm}} \times 9 = 81$

$\underline{\hspace{1cm}} \div 9 = 9$

$81 \div \underline{\hspace{1cm}} = 9$

12. $13 \times 3 = 39$

$3 \times \underline{\hspace{1cm}} = 39$

$39 \div \underline{\hspace{1cm}} = 13$

$39 \div 3 = \underline{\hspace{1cm}}$

17. $4 \times 12 = 48$

$12 \times \underline{\hspace{1cm}} = 48$

$48 \div \underline{\hspace{1cm}} = 4$

$48 \div 4 = \underline{\hspace{1cm}}$

3. $12 \times 5 = 60$

$5 \times \underline{\hspace{1cm}} = 60$

$\underline{\hspace{1cm}} \div 5 = 12$

$60 \div 12 = \underline{\hspace{1cm}}$

8. $7 \times 12 = 84$

$12 \times \underline{\hspace{1cm}} = 84$

$84 \div \underline{\hspace{1cm}} = 7$

$84 \div 7 = \underline{\hspace{1cm}}$

13. $12 \times 6 = 72$

$6 \times \underline{\hspace{1cm}} = 72$

$\underline{\hspace{1cm}} \div 6 = 12$

$72 \div 12 = \underline{\hspace{1cm}}$

18. $12 \times 9 = 108$

$\underline{\hspace{1cm}} \times 12 = 108$

$108 \div 9 = \underline{\hspace{1cm}}$

$\underline{\hspace{1cm}} \div 12 = 9$

4. $6 \times 7 = 42$

$\underline{\hspace{1cm}} \times 6 = 42$

$42 \div \underline{\hspace{1cm}} = 6$

$\underline{\hspace{1cm}} \div 6 = 7$

9. $2 \times 12 = 24$

$12 \times \underline{\hspace{1cm}} = 24$

$24 \div \underline{\hspace{1cm}} = 2$

$24 \div 12 = \underline{\hspace{1cm}}$

14. $8 \times 6 = 48$

$6 \times 8 = \underline{\hspace{1cm}}$

$48 \div 6 = \underline{\hspace{1cm}}$

$48 \div 8 = \underline{\hspace{1cm}}$

19. $9 \times 6 = 54$

$6 \times 9 = \underline{\hspace{1cm}}$

$54 \div 6 = \underline{\hspace{1cm}}$

$54 \div 9 = \underline{\hspace{1cm}}$

5. $7 \times 10 = 70$

$\underline{\hspace{1cm}} \times 7 = 70$

$70 \div 10 = \underline{\hspace{1cm}}$

$70 \div 7 = \underline{\hspace{1cm}}$

10. $12 \times 12 = 144$

$12 \times \underline{\hspace{1cm}} = 144$

$\underline{\hspace{1cm}} \div 12 = 12$

$144 \div 12 = \underline{\hspace{1cm}}$

15. $12 \times 8 = 96$

$\underline{\hspace{1cm}} \times 12 = 96$

$96 \div 8 = \underline{\hspace{1cm}}$

$96 \div 12 = \underline{\hspace{1cm}}$

20. $12 \times 11 = 132$

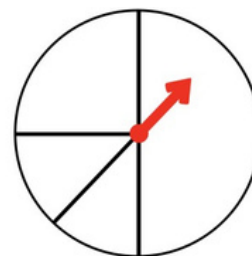
$11 \times \underline{\hspace{1cm}} = 132$

$132 \div 12 = \underline{\hspace{1cm}}$

$132 \div \underline{\hspace{1cm}} = 11$

1. At Milo's friend's party, they used a spinner to decide the chocolate bars they would be eating. Read the Results and label the spinner accordingly.

- Agatha spun 4 times and got 'Kit Kat' 2 times.
- Addison spun 12 times and got 'Twix' 3 times.
- Amy spun 32 times, she got 'Snickers' 4 times and 'Milky Way' 4 times.



2. What is the probability of rolling a 6-sided die and getting a 3?

3. Suppose you have a spinner which is evenly split into 6 sections and labelled.

A B C D E F

- What is the probability that the spinner lands on A or B?
- What is the probability that the spinner lands on a consonant?

4. The public library counted the number of non-fiction books on each shelf. Here is their collected data:

67 89 18 19 35 66 10 45 68 45 23

- Arrange the data into a stem-and-leaf plot.
- What is the mean, mode, and the median of the data?

5. The tally chart below shows the most popular ice cream flavours for grade 4 and 5 students.

Favourite Ice Cream Flavour	Number of Students
Chocolate	
Vanilla	
Strawberry	
Butterscotch	
Cookies n' Cream	

- Draw a bar graph to display these data. What scale did you use?
- Draw a pictogram to display the data. What key did you use?
- Which ice cream flavour is twice as popular as the Cookies n' Creme?
- How many more students choose Vanilla than Strawberry?

6. Talia and Amaani played a game of dice and recorded their rolls on a tally chart.

- Complete the tally chart with the following information:
 - Talia and Amaani rolled twenty-two 1s.
 - They Rolled sixteen 2s.
 - They rolled eighteen 3s.
 - They rolled fourteen 4s.
 - They rolled twenty 5s and twenty 6s.

Roll	Tally
1	
2	
3	
4	
5	
6	

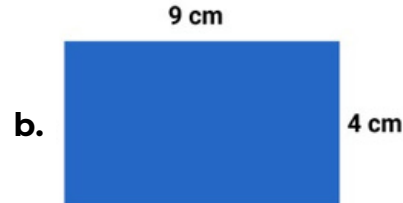
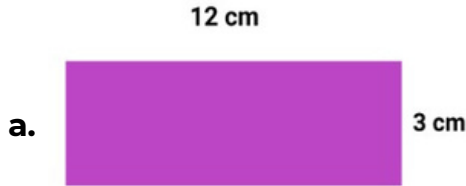
- How many rolls were made in total?
- Which number was rolled most often?
- How many more 1s were rolled compared to 2s?
- Use the tally chart to create a vertical bar graph. Include a title, scale and labeled axes.
- After playing the game Talia and Amaani made the following spinner.

How would the spinner results compare to the dice results? Explain your thinking.



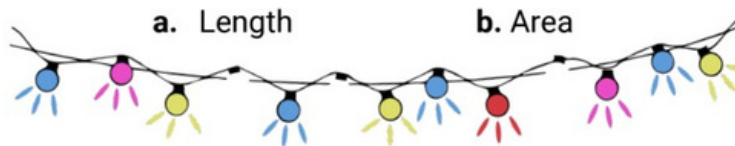
- What is the probability of spinning a 4?
- What is the probability of spinning a number greater than 4?
- What is the probability of spinning a number less than 4?

1. Which rectangle has the greatest area?

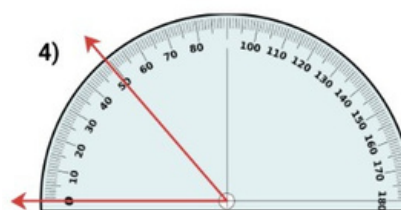
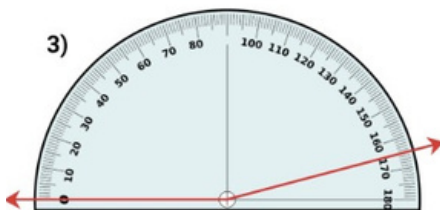
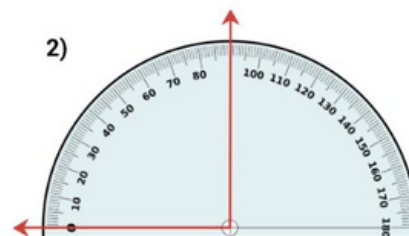
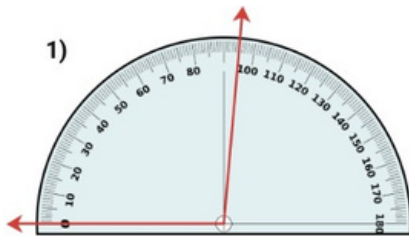


- c. Both rectangles have the same area.

2. A rectangle has an area of 56 square centimeters. The width of the rectangle is 7 centimeters. What is the length of the rectangle?
3. Tamara is going to put sparkly lights around her bedroom. She measures one side of her bedroom and finds it measures 21 meters. Which measurement does 21 meters represent? Explain your reasoning



4. Billy worked on his project for 20 minutes before taking a break. After the break, he worked on the project for another 40 minutes. How much time did he spend doing the project?
5. Use the protractor to determine each angle below.



Answer Key: Day 1-30

Day 1

1. $1000 + 2000 + 20 + 4$
1224
2. $1000 + 600 + 8$
1608
3. $800 + 40 + 15$
855
4. $3000 + 240$
3240

Day 2

1. Nine hundred fifty one thousand eight
951 thousand, 8
951,008
 $900,000 + 50,000 + 1,000 + 8$
2. Four hundred eight thousand three
hundred sixty three
408 thousand, 363
408,363
 $400,000 + 8,000 + 300 + 60 + 3$
3. Three hundred sixty three thousand one
hundred fourteen
363 thousand, 114
363,114
 $300,000 + 60,000 + 3,000 + 100 + 10 + 4$
4. Five hundred fifty seven thousand five
hundred ninety two
557 thousand, 592
557,592
 $500,000 + 50,000 + 7,000 + 500 + 90 + 2$
5. Nine hundred fifty eight thousand seven
hundred thirty seven
958 thousand, 737
958,737
 $900,000 + 50,000 + 8,000 + 700 + 30 + 7$

6. Four hundred forty eight thousand eight
hundred forty six
448 thousand, 846
448,846
 $400,000 + 40,000 + 8,000 + 800 + 40 + 6$
7. Eight hundred thirty thousand seven
hundred seventy seven
830 thousand, 777
830,777
 $800,000 + 30,000 + 700 + 70 + 7$

Day 3

1. 800
2. 300000
3. 20
4. 500
5. 8
6. 5000
7. 6000
8. 0
9. 0
10. 3000
11. 40
12. 3
13. 60000
14. 300000
15. 700
16. 50000
17. 800
18. 3

Day 4

1. 74625
2. 406220
3. 3255019
4. 5445884
5. 605021
6. 839004
7. 445662
8. 2375775

Day 5

824	924	1024	1124	1224	1324	1424
1524	1624	1724	1824	1924	2024	2124
2224	2324	2424	2524	2624	2724	2824
2924	3024	3124	3224	3324	3424	3524
3624	3724	3824	3924	4024	4124	4224
4324	4424	4524	4624	4724	4824	4924
5024	5124	5224	5324	5424	5524	5624
5724	5824	5924	6024	6124	6224	6324

0	150	300	450	600	750
900	1050	900	1350	1500	1650
1800	1950	2100	2250	2400	2550
2700	2850	3000	3150	3300	3450
3600	3750	3900	4050	4200	4350
4500	4650	4800	4950	5100	5250

Day 6

1. 925
2. 1853
3. 1163
4. 925
5. 1853
6. 205
7. 598
8. 452
9. 1055
10. 325
11. 1597
12. 1698

Day 7

1. 1733
2. 1705
3. 1833
4. 1475
5. 2355
6. 2524
7. 1728
8. 2111
9. 3201
10. 2419
11. 2770
12. 2470

Day 8

1. 4426
2. 6744
3. 1745
4. 7248
5. 8265
6. 4775
7. 5285
8. 5225
9. 6115
10. 2495
11. 4356
12. 1752
13. 7285
14. 4228
15. 272
16. 6477
17. 6514
18. 6745
19. 3144
20. 6021
21. 2525
22. 1444
23. 7113
24. 8313

Day 9

2. 3275
3. 3938
4. 3307
5. 2030
6. 1800
7. 2218
8. 698
9. 1160
10. 883
11. 978
12. 1798

Day 10

1. 33
2. 12
3. 6
4. 20
5. 70
6. 30

7. 3
8. 6
9. 21
10. 18
11. 24
12. 36
13. 12
14. 0
15. 70
16. 72
17. 24
18. 28
19. 24
20. 3
21. 2
22. 28
23. 30
24. 24
25. 56
26. 90
27. 4
28. 132
29. 44
30. 20

Day 11

1. 30
2. 100
3. 40
4. 40
5. 40
6. 20
7. 20
8. 40
9. 20
10. 200
11. 40
12. 20
13. 70
14. 20
15. 200
16. 40
17. 30
18. 30
19. 20
20. 20

Day 12

1. 18215
2. 21728
3. 32670
4. 19602
5. 6623
6. 7180
7. 6765
8. 13692
9. 32592
10. 23229
11. 11068
12. 5313

Day 13

1. 2574
2. 576
3. 625
4. 1548
5. 1300
6. 1600
7. 1725
8. 1316
9. 4536
10. 1554
11. 3456
12. 3402
13. 4753
14. 1530
15. 6004
16. 6664

Day 14

1. 78924
2. 105020
3. 16305
4. 1572
5. 38764
6. 56368

Day 15

2. 2
3. 5
4. 2
5. 2

6. 2
7. 3
8. 6
9. 8
10. 2
11. 5
12. 7
13. 4
14. 5
15. 6
16. 5
17. 13
18. 5
19. 27
20. 8
21. 14
22. 21

Day 16

1. 23 R 12
2. 16 R 8
3. 16 R 34
4. 14 R 31
5. 16 R 49
6. 10 R 10
7. 8 R 13
8. 16 R 14
9. 16 R 38
10. 17 R 21
11. 18 R 18
12. 8 R 39
13. 4 R 33
14. 11
15. 12 R 44
16. 3 R 29

Day 17

1.

		0	1	0	2
2	0	2	0	4	8
	-	0			
		2	0		
	-	2	0		
		0	4		
	-	0			
		4	8		
		-	4	0	
					8

2.

		0	1	0	4
1	0	1	0	4	2
	-	0			
		1	0		
	-	1	0		
		0	4		
	-	0			
		4	2		
		-	4	0	
					2

3.

		0	2	0	4
6	1	2	2	4	
	-	0			
		1	2		
	-	1	2		
		0	2		
	-	0			
		2	4		
		-	2	4	
					0

4.

		0	3	6	3
7	2	5	4	1	
	-	0			
		2	5		
	-	2	1		
		4	4		
	-	4	2		
		2	1		
	-	2	1		
					0

5.

		0	1	2	2
1	2	1	4	6	4
	-	0			
		1	4		
	-	1	2		
		2	6		
	-	2	4		
		2	4		
	-	2	4		
					0

6.

		0	1	7	8
1	3	2	3	1	4
	-	0			
		2	3		
	-	1	3		
		1	0	1	
	-	9	1		
		1	0	4	
	-	1	0	4	
					0

7.

		0	1	5	3
3	0	4	5	9	0
	-	0			
		4	5		
	-	3	0		
		1	5	9	
	-	1	5	0	
			9	0	
		-	9	0	
					0

8.

		1	0	8	
6	4	6	9	1	2
	-	6	4		
		5	1		
	-	0			
		5	1	2	
	-	5	1	2	
					R 0

9.

		2	2	2	
2	2	4	8	8	4
	-	4	4		
		4	8		
	-	4	4		
		4	4		
	-	4	4		
					R 0

Day 18

1. $2\frac{1}{4}$; $\frac{9}{4}$
2. $2\frac{3}{4}$; $\frac{11}{4}$
3. $3\frac{1}{5}$; $\frac{16}{5}$
4. $4\frac{4}{6}$; $\frac{28}{6}$
5. $2\frac{1}{3}$; $\frac{7}{3}$
6. $2\frac{2}{5}$; $\frac{12}{5}$
7. $1\frac{2}{10}$; $\frac{12}{10}$
8. 4 ; $\frac{16}{4}$
9. $1\frac{1}{8}$; $\frac{9}{8}$
10. $1\frac{3}{4}$; $\frac{7}{4}$

Day 19

2. $\frac{7}{14}$

3. $\frac{4}{6}$

4. $\frac{5}{7}$

5. $\frac{4}{10}$

Day 20

1. $\frac{3}{4} > \frac{5}{8}$

2. $\frac{2}{3} < \frac{5}{6}$

3. $\frac{5}{8} > \frac{1}{2}$

4. $\frac{1}{2} < \frac{2}{3}$

5. $\frac{4}{8} = \frac{6}{12}$

6. $\frac{4}{8} < \frac{2}{3}$

7. $\frac{3}{5} < \frac{7}{10}$

8. $\frac{3}{5} > \frac{3}{8}$

9. $\frac{3}{5} > \frac{4}{9}$

10. $\frac{2}{3} < \frac{8}{11}$

11. $\frac{4}{4} = \frac{2}{2}$

12. $\frac{1}{3} > \frac{3}{10}$

13. $\frac{4}{6} > \frac{6}{10}$

14. $\frac{5}{8} > \frac{6}{10}$

15. $\frac{6}{10} > \frac{4}{9}$

16. $\frac{4}{5} > \frac{6}{9}$

17. $\frac{8}{9} < \frac{9}{10}$

Day 21

1. GCF: 5; $\frac{9}{5}$

2. GCF: 8; $\frac{1}{5}$

3. GCF: 12; $\frac{4}{3}$

4. GCF: 8; $\frac{1}{4}$

5. GCF: 2; $\frac{5}{2}$

6. GCF: 3; $\frac{6}{11}$

Day 22

1. $\frac{5}{4}$

2. $\frac{3}{2}$

3. $\frac{1}{3}$

4. $\frac{4}{3}$

5. $\frac{3}{4}$

6. $\frac{21}{12}$

7. $\frac{18}{13}$

8. $\frac{9}{7}$

9. $\frac{25}{16}$

10. $\frac{17}{14}$

11. $\frac{2}{11}$

12. $\frac{8}{13}$

13. $\frac{9}{8}$

14. $\frac{1}{4}$

15. $\frac{5}{4}$

16. $\frac{1}{3}$

17. $\frac{2}{3}$

18. $\frac{2}{7}$

19. $\frac{3}{4}$

20. $\frac{19}{14}$

21. $\frac{6}{5}$

Day 23

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

2. $\frac{14}{15}$

3. $3\frac{2}{5}$

4. $\frac{1}{8}$

5. $4\frac{1}{4}$

6. $5\frac{5}{7}$

7. $\frac{5}{12}$

8. $\frac{5}{8}$

9. $3\frac{5}{6}$

10. $1\frac{4}{7}$

11. $7\frac{2}{5}$

12. $2\frac{1}{2}$

13. $2\frac{8}{9}$

14. $1\frac{4}{11}$

Day 24

1. 0.5

2. 0.4

3. 2.5

4. 0.6

5. 0.4

Day 24

6. 12.66
7. 0.25
8. 0.8
9. 6.03
10. 0.18
11. 4.6
12. 120.5

13. $\frac{11}{20}$

14. $\frac{7}{50}$

15. $5\frac{4}{5}$

16. $\frac{2}{4}$

17. $\frac{8}{25}$

18. $\frac{41}{50}$

19. $15\frac{1}{2}$

20. $4\frac{2}{5}$

21. $\frac{1}{25}$

22. $\frac{1}{10}$

23. $35\frac{8}{25}$

24. $8\frac{2}{5}$

Day 25

1. 8
2. 0.30
3. 6.1
4. 76
5. 6.3
6. 6
7. 5.00
8. 6.43
9. 9.84
10. 46
11. 467.47

12. 36.5
13. 354.7
14. 36
15. 4.6
16. 0.6
17. 851
18. 35.8
19. 35
20. 54

Day 26

1. 21.00
2. 31.00
3. 78.22
4. 93.71
5. 36.51
6. 72.10
7. 140.19
8. 69.99
9. 66.90
10. 160.59
11. 134.02
12. 35.80
13. 52.56
14. 27.72
15. 160.08
16. 111.71
17. 27.45
18. 105.42
19. 82.89
20. 162.66
21. 146.46
22. 18.02
23. 19.77
24. 0.80

Day 27

1.

5	+	9	=	14
+		+		+
1	+	11	=	12
=		=		=
6	+	20	=	26

2.

22	+	3	=	25
-		+		-
6	-	1	=	5
=		=		=
16	+	4	=	20

3.

17	+	7	=	24
-		+		-
16	-	2	=	14
=		=		=
1	+	9	=	10

4.

22	-	3	=	19
-		+		-
7	+	4	=	11
=		=		=
15	-	7	=	8

5.

22	+	5	=	27
-		+		-
10	-	6	=	4
=		=		=
12	+	11	=	23

6.

7	+	16	=	23
+		+		-
22	-	6	=	16
=		=		=
29	-	22	=	7

Day 28

2. $11 \times 8 = 88$

$8 \times 11 = 88$

$88 \div 8 = 11$

$88 \div 11 = 8$

3. $12 \times 5 = 60$

$5 \times 12 = 60$

$60 \div 5 = 12$

$60 \div 12 = 5$

4. $6 \times 7 = 42$

$7 \times 6 = 42$

$42 \div 7 = 6$

$42 \div 6 = 7$

5. $7 \times 10 = 70$

$10 \times 7 = 70$

$70 \div 10 = 7$

$70 \div 7 = 10$

6. $11 \times 11 = 121$

$11 \times 11 = 121$

$121 \div 11 = 11$

$121 \div 11 = 11$

7. $9 \times 9 = 81$

$9 \times 9 = 81$

$81 \div 9 = 9$

$81 \div 9 = 9$

8. $7 \times 12 = 84$

$12 \times 7 = 84$

$84 \div 12 = 7$

$84 \div 7 = 12$

9. $2 \times 12 = 24$

$12 \times 2 = 24$

$24 \div 12 = 2$

$24 \div 2 = 12$

10. $12 \times 12 = 144$

$12 \times 12 = 144$

$144 \div 12 = 12$

$144 \div 12 = 12$

11. $9 \times 8 = 72$

$8 \times 9 = 72$

$72 \div 8 = 9$

$72 \div 9 = 8$

12. $13 \times 3 = 39$

$3 \times 13 = 39$

$39 \div 3 = 13$

$39 \div 13 = 3$

13. $12 \times 6 = 72$

$6 \times 12 = 72$

$72 \div 6 = 12$

$72 \div 12 = 6$

14. $8 \times 6 = 48$

$6 \times 8 = 48$

$48 \div 6 = 8$

$48 \div 8 = 6$

15. $12 \times 8 = 96$

$8 \times 12 = 96$

$96 \div 8 = 12$

$96 \div 12 = 8$

16. $13 \times 13 = 169$

$13 \times 13 = 169$

$169 \div 13 = 13$

$169 \div 13 = 13$

17. $4 \times 12 = 48$

$12 \times 4 = 48$

$48 \div 12 = 4$

$48 \div 4 = 12$

18. $12 \times 9 = 108$

$9 \times 12 = 108$

$108 \div 9 = 12$

$108 \div 12 = 9$

19. $9 \times 6 = 54$

$6 \times 9 = 54$

$54 \div 6 = 9$

$54 \div 9 = 6$

20. $12 \times 11 = 132$

$11 \times 12 = 132$

$132 \div 12 = 11$

$132 \div 11 = 12$

Day 29

1.



2. $\frac{1}{6}$

3. a. $\frac{2}{6} = \frac{1}{3}$

b. $\frac{4}{6} = \frac{2}{3}$

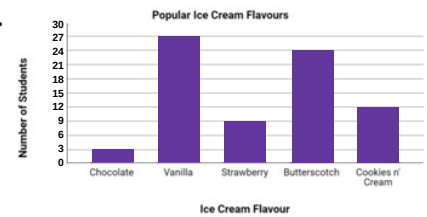
4. a.

Stem	Leaf
1	0, 8, 9
2	3
3	5
4	5, 5
6	6, 7, 8
8	9

b. Mean = 44.09;

Median = 45; Mode = 45

5.

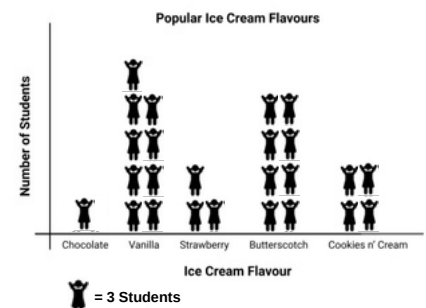


a. No key used, the scale is by 3.

b. Key: symbol represents 3 students.

c. Butterscotch flavor

d. Difference: $27 - 8 = 18$.
18 more students chose vanilla.



6. a.

Roll	Tally
1	
2	
3	
4	
5	
6	

b. # of die rolls:

$22 + 16 + 18 + 13 + 20 + 20 = 110$

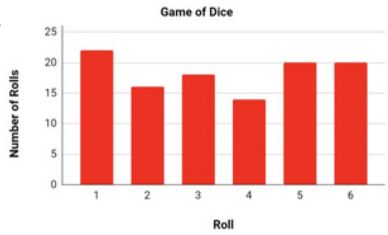
110 die rolls were made.

c. 1 was rolled most often.

d. Difference: $22 - 16 = 6$;
There were 6 more rolls.

Day 29

6. e.



- f. They would expect the probability of rolling each number to be 1 out of 6 because the spinner is divided evenly into 6 parts
- g. $\frac{1}{6}$
- h. 5 and 6 are greater than 4; the probability is $\frac{2}{6} = \frac{1}{3}$
- i. 1, 2, and 3 are less than 4; the probability is $\frac{3}{6} = \frac{1}{2}$

Day 30

1. Choice C: both have an area of 36cm^2
 - a. $12 \times 3 = 36\text{ cm}^2$
 - b. $9 \times 4 = 36\text{ cm}^2$
2. Given: area is 56 cm^2 , width is 7 cm.
Required: length of rectangle
Solve: To find the length we need to figure out what number multiplied by 7 gives an answer of 56. We can figure it out by doing $56 \div 7 = 8\text{ cm}$
The length is 8 cm because $7 \times 8 = 56\text{ cm}^2$
3. Explain your choice.
A: length
4. Given: Billy worked = 20 min and 40 mins
Required: Total time spent doing the project

4. Solve: Add 40 min with 20 min. $40 + 20 = 60\text{ min}$ 60 mins = 1 hour
Billy spent 1 hour doing the project.

5. a. 95°
b. 90°
c. 165°
d. About 49°



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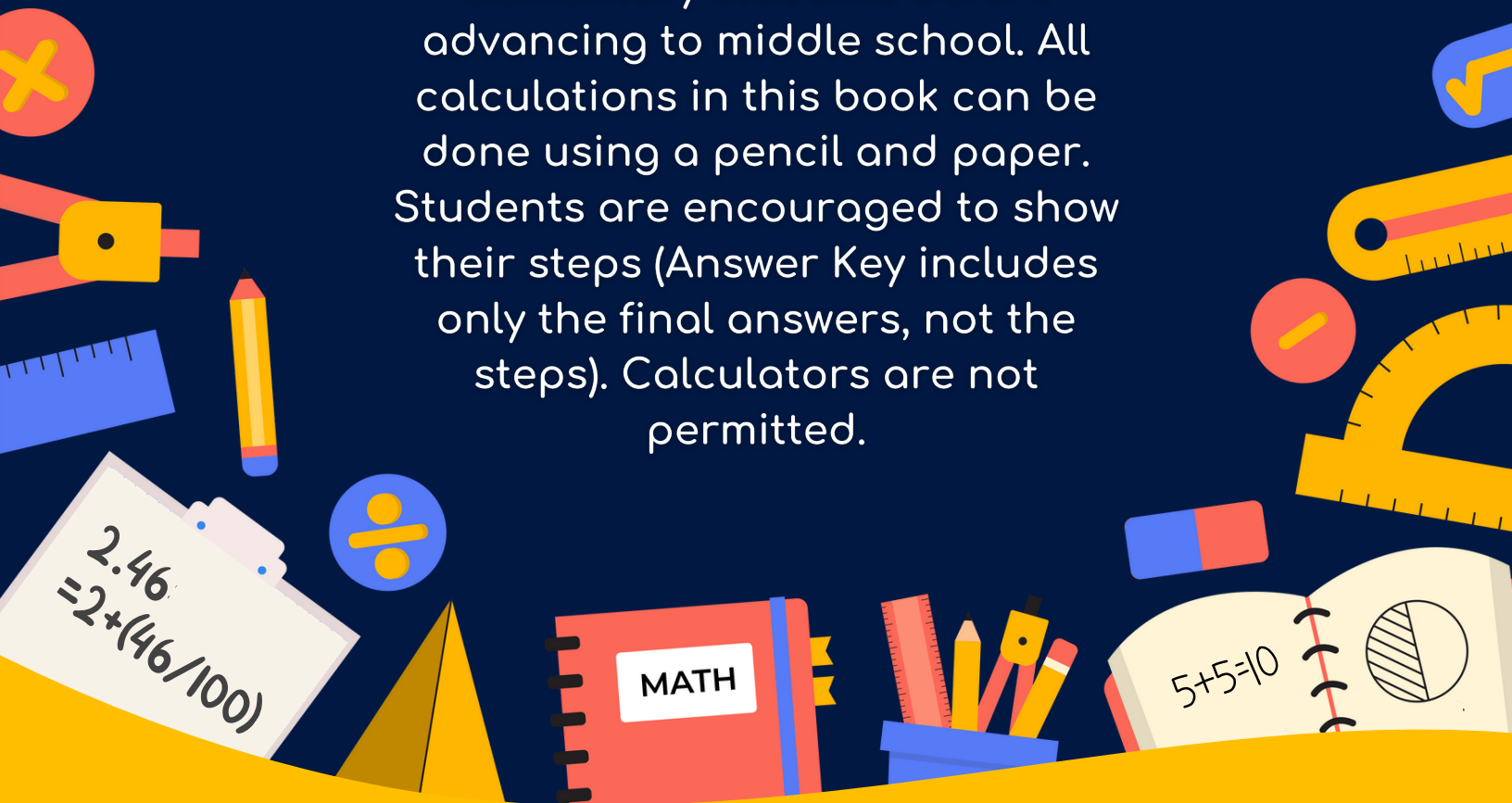
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