

Summer Math Packet

Dear Parents,

The purpose of this summer math packet is to give your child/children practice of concepts covered throughout the school year. It is a long summer and we do not want important topics lost over the summer months. It is best to work on the packet every couple of days rather than all at once.

The packet will be due Tuesday, August 29th, 2017. It will count as the first homework assignment for the 2017-2018 school year. The teacher of the next grade will check the packet with the children and record that the packet was checked and completed. Points are earned for completion, not for the amount correct. It will also serve as a starting point for your child's/children's current math teacher. This packet solely provides reinforcement of what was introduced, developed, and mastered throughout the year. Ms. Swiatko's website, swiatkomath.yolasite.com, provides several resources and references should you need them.

Have a safe and fun filled summer!

Student name: _____

Grade: 4 into 5



Write the number.

- 1) nine thousand, five hundred ninety-four
- 2) nine thousand, six hundred ninety-four
- 3) six thousand, four hundred eighteen
- 4) nine thousand, two hundred ten
- 5) one thousand, one hundred ninety-eight
- 6) four thousand, two hundred thirty-nine
- 7) four thousand, one hundred sixty-six
- 8) twenty-nine thousand twenty-three
- 9) ninety-five thousand, two hundred eight
- 10) twenty-nine thousand, one hundred forty-nine
- 11) twenty-one thousand, seven hundred ninety-one
- 12) seventy-three thousand, three hundred fifty-three
- 13) ninety-five thousand, two hundred eighty-five
- 14) forty-three thousand, one hundred fifty-seven
- 15) nine hundred seventeen thousand, four hundred eleven
- 16) nine hundred eighty-five thousand, two hundred twenty-four
- 17) seven hundred sixty-nine thousand forty
- 18) two hundred fifty-three thousand, four hundred seventy-nine
- 19) two hundred thirty-seven thousand twenty-seven
- 20) two hundred twenty-nine thousand, six hundred ninety-three

Answers

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



Ordering large numbers

Write these numbers in order, starting with the least.

256 9,654,327 39,214 147,243 9,631

256 9,631 39,214 147,243 9,654,327

Write these numbers in order, starting with the least.

72,463 8,730,241 261 5,247 643,292

9,641,471 260,453 59,372 657,473 4,290

327,914 3,647,212 47,900 3,825 416

593,103 761 374,239 91,761 1,425

5,600,200 500,200 5,200 50,200 52,000

6,437 643 64,370 6,430 643,000

9,900 999 900,200 920,200 9,200,000

In a country's election
O'Neil got 900,550 votes,
Schneider got 840,690 votes,
Rojas got 8,406,900 votes,
Marsalis got 7,964,201 votes and
Samperi got 859,999 votes.



Place the candidates in order.

1st _____

2nd _____

3rd _____

4th _____

5th _____

Expanded form



What is the value of 3 in 2,308?

Write 3,417 in expanded form.

$$(3 \times 1,000) + (4 \times 100) + (1 \times 10) + (7 \times 1)$$

$$3,000 + 400 + 10 + 7$$

What is the value of 5 in each of these numbers?

25

5,904

52

2,512

805

What is the value of 8 in each of these numbers?

8,300

982

1,805

768

19,873

Circle each number in which 7 has the value of 70.

7,682

927

870

372

707

171

767

875

7,057

70,000

Write each number in expanded form.

3,897

24,098

50,810

8,945

6,098

14,003



Rewrite each number in expanded form.

1) 2,907

2) 633,235

3) 97,382

4) 6,643

5) 8,198

6) 888.617

7) 81,431

8) 2,887

9) 78,358

10) 162.829

11) 77,996

12) 7,121

13) 274.812

14) 89.240

15) 310,537

16) 94,462

17) 190,639

18) 6,814

19) 19,056

20) 332,871

Mixed rounding: round numbers to the underlined digit

Grade 4 Rounding Worksheet

Example: 4,689 rounded to the nearest 1,000 is 5,000

Round to the accuracy of the underlined digit.

1. 77,345 = _____ 2. 18,380 = _____ 3. 7,146 = _____

4. 58,262 = _____ 5. 65,643 = _____ 6. 13,388 = _____

7. 98,364 = _____ 8. 39,865 = _____ 9. 34,352 = _____

10. 29,670 = _____ 11. 81,538 = _____ 12. 77,454 = _____

13. 20,559 = _____ 14. 87,709 = _____ 15. 97,231 = _____

16. 87,187 = _____ 17. 64,477 = _____ 18. 81,813 = _____

19. 24,012 = _____ 20. 76,153 = _____ 21. 73,693 = _____



Factors of numbers from 1 to 30

The factors of 10 are 1 2 5 10

Circle the factors of 4.

1 2 3 4

Write all the factors of each number.

The factors of 26 are

The factors of 30 are

The factors of 9 are

The factors of 12 are

The factors of 15 are

The factors of 22 are

The factors of 20 are

The factors of 21 are

The factors of 24 are

Circle all the factors of each number.

Which numbers are factors of 14? 1 2 3 5 7 9 12 14

Which numbers are factors of 13? 1 2 3 4 5 6 7 8 9 10 11 13

Which numbers are factors of 7? 1 2 3 4 5 6 7

Which numbers are factors of 11? 1 2 3 4 5 6 7 8 9 10 11

Which numbers are factors of 6? 1 2 3 4 5 6

Which numbers are factors of 8? 1 2 3 4 5 6 7 8

Which numbers are factors of 17? 1 2 5 7 12 14 16 17

Which numbers are factors of 18? 1 2 3 4 5 6 8 9 10 12 18

Some numbers only have factors of 1 and themselves. They are called prime numbers. Write down all the prime numbers that are less than 30 in the box.



Identifying patterns

Continue each pattern.

Steps of 2: $\frac{1}{2}$ $2\frac{1}{2}$ $4\frac{1}{2}$ $6\frac{1}{2}$ $8\frac{1}{2}$ $10\frac{1}{2}$

Steps of 5: 3.5 8.5 13.5 18.5 23.5 28.5

Continue each pattern.

$5\frac{1}{2}$	$10\frac{1}{2}$	$15\frac{1}{2}$			
$1\frac{1}{4}$	$3\frac{1}{4}$	$5\frac{1}{4}$			
$8\frac{1}{3}$	$9\frac{1}{3}$	$10\frac{1}{3}$		$12\frac{1}{3}$	
$55\frac{3}{4}$	$45\frac{3}{4}$	$35\frac{3}{4}$			
$42\frac{1}{2}$	$38\frac{1}{2}$	$34\frac{1}{2}$			$22\frac{1}{2}$
7.5	6.5	5.5			
28.4	25.4	22.4		16.4	
81.6	73.6	65.6			
6.3	10.3	14.3			
12.1	13.1	14.1			17.1
14.6	21.6	28.6			
$11\frac{1}{2}$	$10\frac{1}{2}$	$9\frac{1}{2}$			
8.4	11.4	14.4		20.4	
$7\frac{3}{4}$	$13\frac{3}{4}$	$19\frac{3}{4}$			$37\frac{3}{4}$
57.5	48.5	39.5			



Multiply in columns - 1 digit by 4 digit

Grade 4 Multiplication Worksheet

Find the product.

$$\begin{array}{r} 1. \quad 5,144 \\ \times \quad 8 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 3,610 \\ \times \quad 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 6,784 \\ \times \quad 7 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 5,315 \\ \times \quad 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 7,176 \\ \times \quad 8 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 9,331 \\ \times \quad 6 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 8,226 \\ \times \quad 8 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 9,817 \\ \times \quad 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 5,663 \\ \times \quad 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 7,910 \\ \times \quad 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 3,913 \\ \times \quad 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 8,728 \\ \times \quad 6 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 7,205 \\ \times \quad 2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 8,469 \\ \times \quad 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 3,913 \\ \times \quad 3 \\ \hline \\ \hline \end{array}$$



Multiply in columns - 2 digit by 2 digit

Grade 4 Multiplication Worksheet

Find the product.

$$\begin{array}{r} 1. \quad 36 \\ \times 15 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 36 \\ \times 55 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 80 \\ \times 71 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 94 \\ \times 37 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 78 \\ \times 95 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 71 \\ \times 26 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 49 \\ \times 97 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 78 \\ \times 87 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 71 \\ \times 81 \\ \hline \\ \hline \end{array}$$



Dividing by one-digit numbers

Find the quotient. Estimate your answer first.

$3 \times 100 = 300$, so the quotient will be less than 100.
 $3 \times 80 = 240$ and $3 \times 90 = 270$,
so the quotient will be between 80 and 90.

$$\begin{array}{r} 85 \text{ r } 2 \\ 3 \overline{) 257} \\ \underline{24} \\ 17 \\ \underline{15} \\ 2 \end{array}$$

Find the quotients. Remember to estimate your answers first.

$$\begin{array}{r} \\ 2 \overline{) 571} \end{array}$$

$$\begin{array}{r} \\ 4 \overline{) 823} \end{array}$$

$$\begin{array}{r} \\ 3 \overline{) 604} \end{array}$$

$$\begin{array}{r} \\ 4 \overline{) 925} \end{array}$$

$$\begin{array}{r} \\ 2 \overline{) 147} \end{array}$$

$$\begin{array}{r} \\ 3 \overline{) 259} \end{array}$$

$$\begin{array}{r} \\ 4 \overline{) 725} \end{array}$$

$$\begin{array}{r} \\ 5 \overline{) 811} \end{array}$$

$$\begin{array}{r} \\ 2 \overline{) 593} \end{array}$$

$$\begin{array}{r} \\ 4 \overline{) 406} \end{array}$$

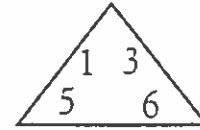
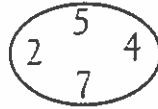
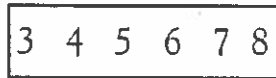
$$\begin{array}{r} \\ 3 \overline{) 739} \end{array}$$

$$\begin{array}{r} \\ 5 \overline{) 591} \end{array}$$



Logic problems

Read the clues to find the secret number.

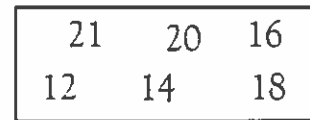
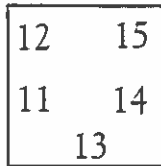
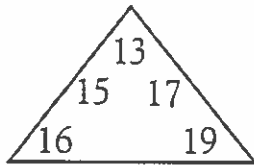


It is in both the rectangle and the circle.

It is not in the triangle. It is greater than 5.

What number is it?

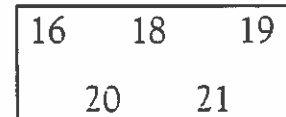
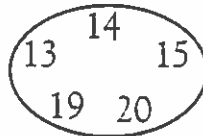
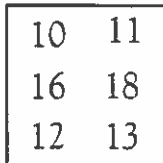
Read the clues to find the secret number.



It is not in the square. It is an even number.

It is greater than any number in the triangle.

What number is it?



It is in the square and the circle.

It is greater than 10 and less than 16. It is an odd number.

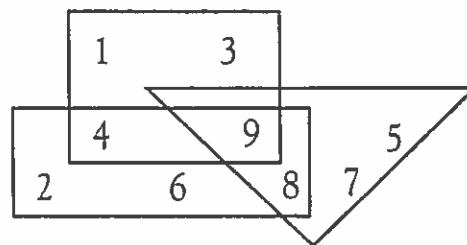
What number is it?

It is in the triangle.

It is not an even number.

It is in the rectangle and the square.

What number is it?





Fractions

$\frac{1}{2}$ of 12 is 6

$\frac{1}{3}$ of 9 is 3

$\frac{1}{4}$ of 20 is 5

What is $\frac{1}{2}$ of each number?

4

8

10

2

6

12

20

16

14

50

100

60

What is $\frac{1}{3}$ of each number?

6

12

18

9

3

15

21

30

24

60

27

33

What is $\frac{1}{4}$ of each number?

8

16

4

12

20

40

80

1

What is $\frac{1}{8}$ of each number?

16

8

24

40

32

48

80

56

What is $\frac{1}{10}$ of each number?

20

40

80

100

10

30

50

90

Equivalent fractions

Grade 4 Fractions Worksheet

Write in the missing fraction and color in the pie charts.

1)



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

=



—

2)



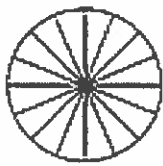
$$\frac{1}{3}$$

=



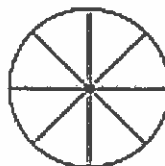
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3)



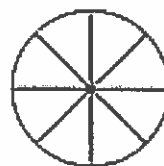
$$\frac{10}{16}$$

=



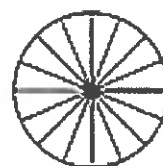
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4)



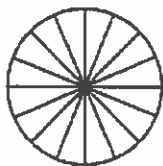
$$\frac{4}{8}$$

=



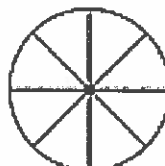
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5)



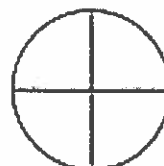
$$\frac{2}{16}$$

=



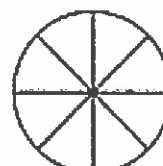
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6)



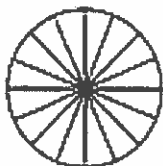
$$\frac{1}{4}$$

=



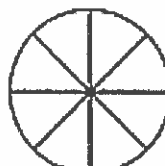
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7)



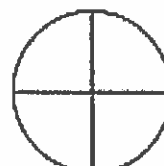
$$\frac{8}{16}$$

=



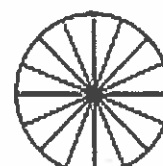
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8)



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

=



—

Rounding Mixed Number: Number Line

Sheet 1

Round each mixed number to the nearest whole number using number line.

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

i) Label $2\frac{1}{4}$ on the number line.

ii) Is it close to 2 or 3? _____

iii) $2\frac{1}{4}$ rounded to the nearest whole number is _____

2) $8\frac{5}{7}$

i) Label $8\frac{5}{7}$ on the number line.

ii) Is it close to 8 or 9? _____

iii) $8\frac{5}{7}$ rounded to the nearest whole number is _____

3) $14\frac{2}{9}$

i) Label $14\frac{2}{9}$ on the number line.

ii) Is it close to 14 or 15? _____

iii) $14\frac{2}{9}$ rounded to the nearest whole number is _____

Rounding Proper Fraction: Number Line

Sheet 1

Round each fraction to the nearest whole number using number line.

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

i) Label $\frac{3}{8}$ on the number line.

ii) Is it close to 0 or 1? _____

iii) $\frac{3}{8}$ rounded to the nearest whole number is _____

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

i) Label $\frac{1}{5}$ on the number line.

ii) Is it close to 0 or 1? _____

iii) $\frac{1}{5}$ rounded to the nearest whole number is _____

3) $\frac{4}{7}$

i) Label $\frac{4}{7}$ on the number line.

ii) Is it close to 0 or 1? _____

iii) $\frac{4}{7}$ rounded to the nearest whole number is _____



Convert decimals to fractions.

Grade 4 Fractions Worksheet

Convert.

1. $0.92 = \frac{92}{100}$

2. $0.4 = \frac{4}{10}$

3. $0.76 =$ _____

4. $0.2 =$ _____

5. $0.42 =$ _____

6. $0.84 =$ _____

7. $0.5 =$ _____

8. $0.15 =$ _____

9. $0.29 =$ _____

10. $0.74 =$ _____

11. $0.6 =$ _____

12. $0.69 =$ _____

13. $0.41 =$ _____

14. $0.8 =$ _____

15. $0.73 =$ _____

16. $0.1 =$ _____

17. $0.64 =$ _____

18. $0.7 =$ _____



Comparing and ordering decimals

Compare the decimals. Which decimal is greater?

2.2 and 3.1

0.45 and 0.6

Line them up vertically.

2.2
3.1

0.45
0.60

$3 > 2$, so $3.1 > 2.2$

$6 > 4$, so $0.6 > 0.45$

Compare the decimals. Which decimal is greater?

7.9 and 8.1

0.5 and 0.62

3.6 and 0.94

0.4 and 0.67

1.6 and 1.9

0.31 and 3.10

8.5 and 6.9

6.75 and 6.71

Find the greatest decimal.

2.9 and 2.75 and 2.6

0.97 and 1.09 and 1.3

4.9 and 3.87 and 4.75

Write the decimals in order from greatest to least.

0.33 3.1 0.3

24.95 23.9 24.5

7.5 6.95 7.58

Find the answer to each problem.

The Weather Bureau reported 5.18 inches of rain in March, 6.74 inches in April, and 5.23 inches in May. Which month had the least rainfall?

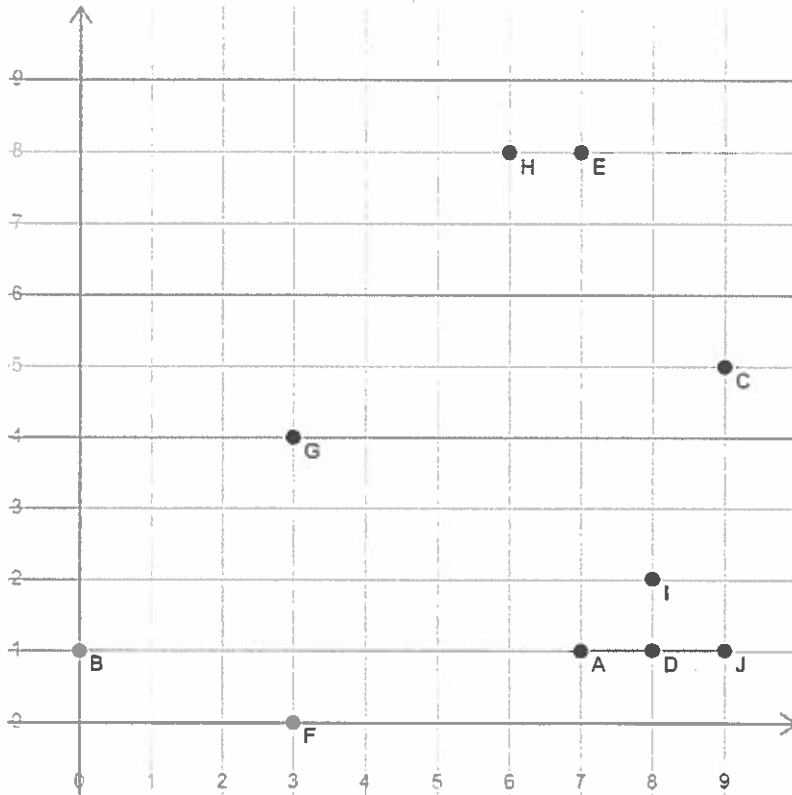
A postal worker walked 4.5 miles on Wednesday, 3.75 miles on Thursday, and 4.25 miles on Friday. Which day did she walk the farthest?

Reading points on a coordinate grid (1st quadrant only)

Grade 4 Geometry Worksheet

Plot the points shown on the grid.

1.



A = _____ B = _____

C = _____ D = _____

E = _____ F = _____

G = _____ H = _____

I = _____ J = _____

Name

Date



MEAN, MEDIAN, MODE AND RANGE SHEET 1

Find the mean, median, mode and range in each of the sets of data.

1)	15, 23, 19, 20, 23		5)	22, 37, 19, 25, 37, 51, 82	
order	15, 19, 20, 23, 23		order		
	Mean $100 \div 5 = \underline{20}$	Median <u>20</u>		Mean	Median
	Mode <u>23</u>	Range $23 - 15 = \underline{8}$		Mode	Range
2)	2, 7, 4, 2, 3, 6, 11		6)	6, 2, 13, 7, 6, 11, 10, 6, 2	
order			order		
	Mean	Median		Mean	Median
	Mode	Range		Mode	Range
3)	70, 63, 67, 62, 63		7)	109, 104, 96, 103, 104, 107, 98	
order			order		
	Mean	Median		Mean	Median
	Mode	Range		Mode	Range
4)	11, 4, 7, 8, 2, 6, 4		8)	14, 68, 38, 65, 36, 57, 65	
order			order		
	Mean	Median		Mean	Median
	Mode	Range		Mode	Range



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Flower Nursery: Reading a Pictograph

These two pictographs are comparing two types of flowers imported from Europe. Answer the questions below using information from the pictographs.

Note: each tulip in the pictograph stands for 1,000 tulips. Each daisy in the pictograph stands for 1,200 daisies.

Country	Number of Tulips Imported
Holland	
France	
Denmark	
Italy	

Country	Number of Daisies Imported
Holland	
France	
Denmark	
Italy	

 = 1,000

 = 1,200

Questions:

1. How many tulips did Holland and France import?

Answer: _____

2. How many daisies did Holland and Italy import?

Answer: _____

3. What country imported the same amount of tulips and daisies?

Answer: _____

4. Write the countries that imported the most flowers to the least flowers, in order.

Answer: _____

5. If Denmark wants to import 3,000 more daisies, how many  would you draw in the table above?

Answer: _____

Area = length \times width

Perimeter = length + length + width + width

AREA AND PERIMETER SHEET 2



Work out the area and perimeter of the following rectangles.

They are not to scale. Remember - **area inside** and **perimeter outside**.

1)



Area = _____ square cm

Perimeter = _____ cm

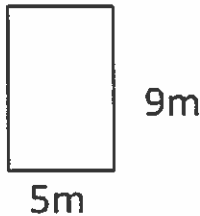
2)



Area = _____ square mm

Perimeter = _____ mm

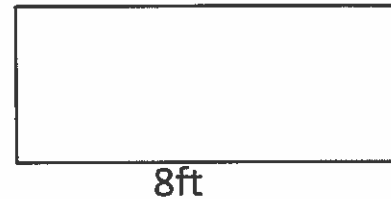
3)



Area = _____ square m

Perimeter = _____ m

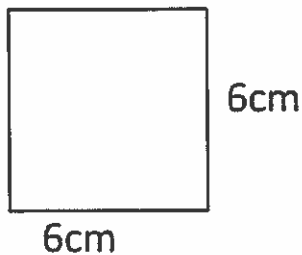
4)



Area = _____ square ft

Perimeter = _____ ft

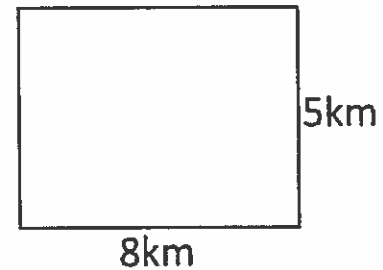
5)



Area = _____ square cm

Perimeter = _____ cm

6)



Area = _____ square km

Perimeter = _____ km





Acute and obtuse angles

A right angle forms a square corner.



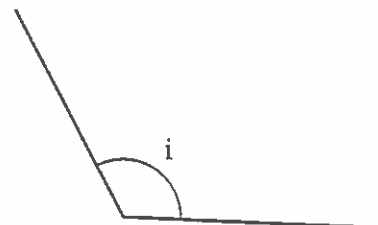
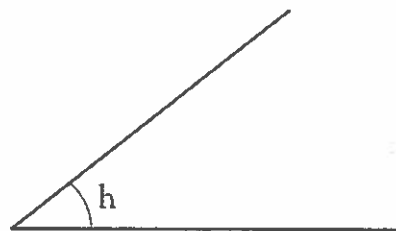
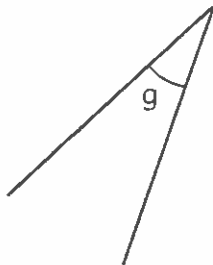
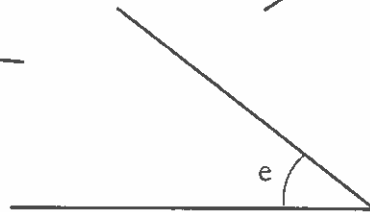
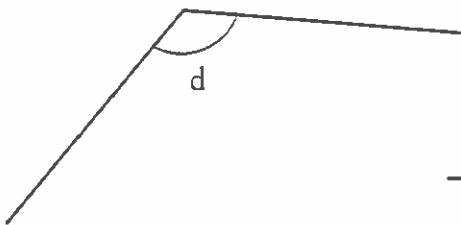
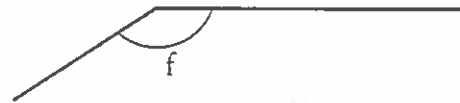
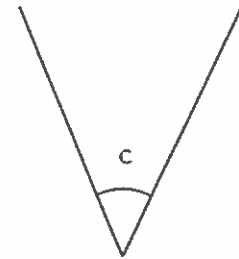
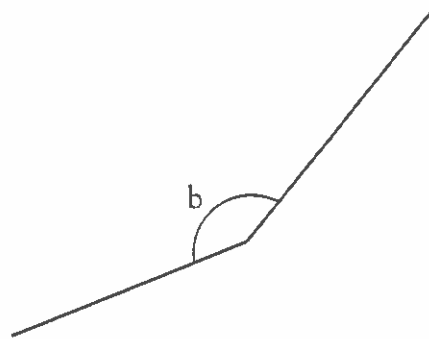
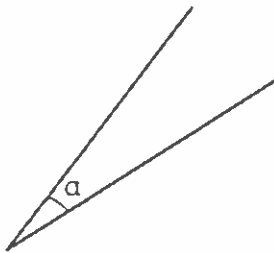
An obtuse angle is greater than a right angle.



An acute angle is less than a right angle.



Look at these angles.



Which of the angles are acute?

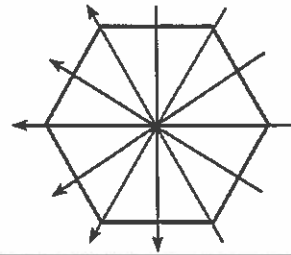
Which of the angles are obtuse?



Lines of symmetry

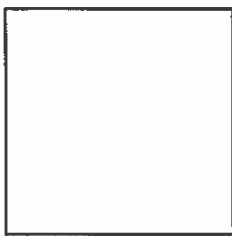
How many lines of symmetry does this figure have?

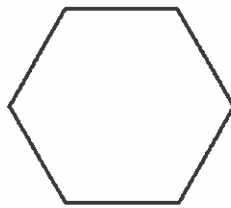
6

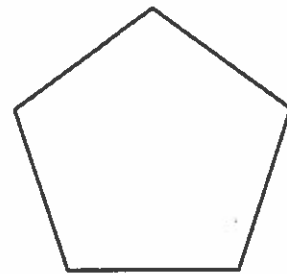


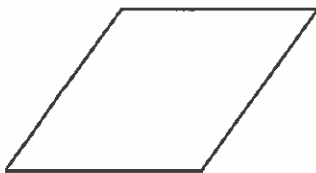
Six lines can be drawn each of which divide the figure exactly in half.

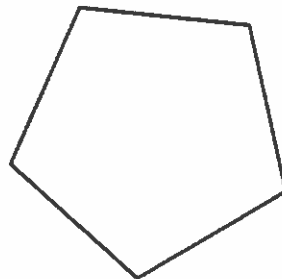
How many lines of symmetry do these figures have?

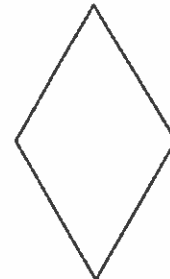


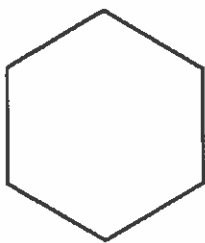


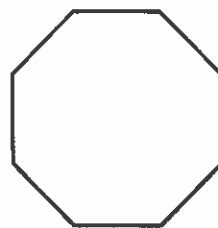


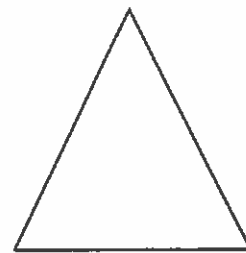












Answer the word problems below. Highlight the important words and numbers. Remember to write your answer in a full sentence. Give answers in hours and minutes when greater than 60 minutes.

1. Jackson's favorite television starts at 3:30. If he gets home from school at 2:30, how long does he have until his show starts?

2. Mrs. Morrison's math class starts at 11:30. If the class ends at 1:00, how long is Mrs. Morrison teaching?

3. David has a lot of homework to do. He starts his reading homework at 3:45 and ends at 4:30. Then he does math from 4:30 until 5:00. Lastly, he studies for a science test from 5:00 - 5:30. How much total time did David spend on his homework and studying?

4. Michelle exercises for half an hour every day. How minutes in total does she exercise for over 5 days?

5. It takes 3 hours to wash every window on a building. There are 30 windows. How many minutes does it take to wash each window?

Use any strategy to solve. Hint: draw a picture if you can!!

1. Julie climbed 15 steps up to the giant slide. She climbed down 6 steps to talk to her friend. Then she climbed up 8 steps to get to the top. How many steps does the slide have?
2. There were 17 balls on the playground. 5 were soccer balls and 8 were basketballs. The rest were kickballs. How many kickballs were there?
3. Lisa made 8 apple muffins for the bake sale. Trevor made 6 banana muffins. They sold 5 muffins altogether. How many muffins were left?
4. Sam bought 7 pencils. He had \$24 before he bought the pencils. After he bought the pencils he had \$10 left. How much did each pencil cost?

