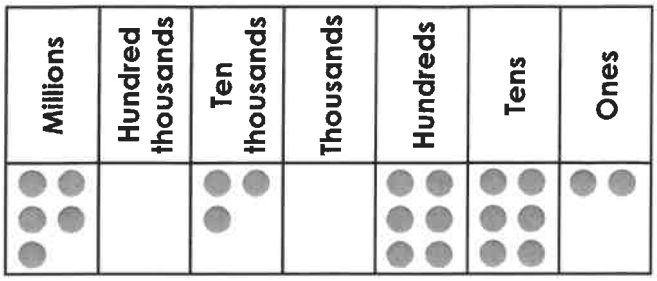
Rounding Numbers

1a. Which two numbers will round to the same value when rounded to the nearest 1,000?

a



b 5 million, forty-one thousand, DCII

c Five million, forty-two thousand, CXIV

GD

VF

2a. Which numbers round to 7,000,000 when rounding to the nearest 100,000?

6,962,DCC

7,039,815

Six million, nine hundred and forty-three thousand, DCCLI

GD

VF

3a. to show whether the number rounds to 7,700,000 or 7,800,000 to the nearest 10,000.

Number	Rounds to 7,700,000	Rounds to 7,800,000
7,795,DXXV		
7,704,DCCCXCI		
7,804,000		

GD

VF

4a. Round the number below to the nearest 1,000, 10,000, 100,000 and 1,000,000.

Nine million, MMMDCLXXIX

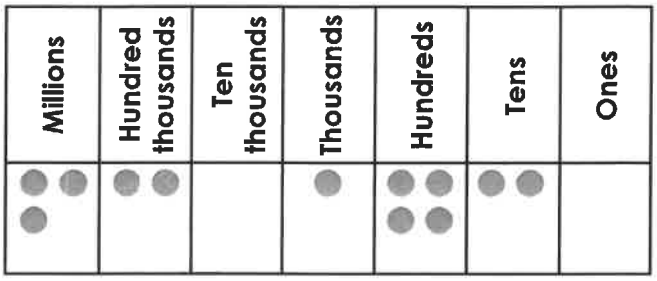
GD

VF

Rounding Numbers

1b. Which two numbers will round to the same value when rounded to the nearest 100,000?

a



b 3,278,568

c Three million, one hundred and fifty thousand and seven

GD

VF

2b. Which numbers round to 3,900,000 when rounding to the nearest 10,000?

3,909,CDLIV

3,899,516

Three million, nine hundred and one thousand and six

GD

VF

3b. Tick to show whether the number rounds to 3,900,000 or 4,000,000 to the nearest 100,000.

Number	Rounds to 3,900,000	Rounds to 4,000,000
3,906,DXII		
3,960,215		
3,851,CI		

GD

VF

4b. Round the number below to the nearest 1,000, 10,000, 100,000 and 1,000,000.

Six million, four hundred and twelve thousand, CMXCIX

GD

VF

Rounding Numbers

1a. Which number is the odd one out when rounded to the nearest million and rounded to the nearest hundred thousand? Explain your answers.

Two million, four hundred and fifty-three thousand, DCCXIV

2,513,DCLXXIV

2,364,CXXXIII

Two million, four hundred and ninety-five thousand, three hundred and thirty-one

GD R

Rounding Numbers

1b. Which number is the odd one out when rounded to the nearest hundred thousand and rounded to the nearest ten thousand? Explain your answers.

Six million, five hundred and forty-five thousand, CCV

6,545,DCCLXXXIX

6,551,222

Six million, four hundred and ninety-one thousand, DVI

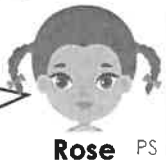
GD R

2a. Work out which child has which number. Find two possible solutions.

4,453,CCLV | 4,506,CCXLIV | 4,510,361

Andrew: To the nearest hundred thousand, my number rounds to four and a half million.

Pippa: To the nearest million, my number rounds to four million.



Rose: To the nearest ten thousand, my number rounds to 4,510,000.

GD PS

2b. Work out which child has which number. Find two possible solutions.

2,504,DLXXXIV | 2,504,499 | 2,004,CMXCIX

Jack: To the nearest million, my number rounds to two million.

Madeline: To the nearest ten thousand, my number rounds to two and half million.

Kieran: To the nearest thousand, my number rounds to two million, five hundred and five thousand.

GD PS

3a. Harrison is rounding numbers. He says,

I think that 4,505,CMXCII rounded to the nearest hundred thousand and rounded to the nearest ten thousand makes the same number.

Is he correct? Explain your answer.

GD R

3b. Abigail is rounding numbers. She says,

I think that rounding six million, thirty thousand, DCCXLII to the nearest ten thousand and thousand makes 6,030,000 both times.

Is she correct? Explain your answer.

GD R

Fractions to Decimals 1

1a. Complete the statements.

$\frac{3}{24}$ is equivalent to 0 . ☐ 2 ☐

$\frac{6}{16}$ is equivalent to 0 . 3 ☐☐

VF

Fractions to Decimals 1

1b. Complete the statements.

$\frac{2}{16}$ is equivalent to 0 . ☐☐ 5

$\frac{12}{48}$ is equivalent to 0 . ☐☐

VF

2a. True or false?

0.75 is equivalent to $\frac{36}{48}$.

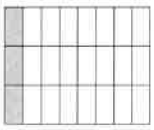
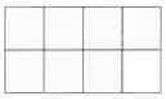
VF

2b. True or false?

0.875 is equivalent to $\frac{7}{8}$.

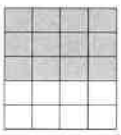
VF

3a. Convert the fractions below to decimals.

A  B $\frac{6}{8}$ C 

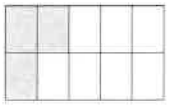
VF

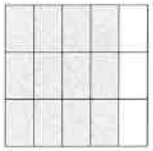
3b. Convert the fractions below to decimals.

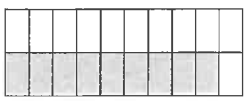
A  B $\frac{3}{8}$ C 

VF

4a. Match the decimals to the equivalent image.

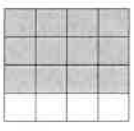
A  0.45

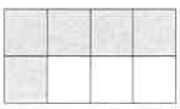
B  0.3

C  0.8

VF

4b. Match the decimals to the equivalent image.

A  0.375

B  0.75

C  0.625

VF

Fractions to Decimals 1

1a. Alesha and Lucy are comparing fractions.

I think that 0.625 is greater.

Alesha

I think that $\frac{3}{8}$ is greater.

Lucy

Who is correct. Explain how you know.

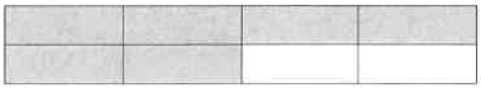
R

2a. Convert the fractions into decimals and write them in descending order.

A 

B $\frac{5}{8}$

C $\frac{10}{16}$

D 

PS

3a. I am thinking of a fraction.

- It can be simplified.
- When converted to a decimal, it has 3 decimal places.
- The numerator is a multiple of 4.
- The denominator is between 27 and 32.

What is my fraction?
What is this fraction as a decimal?

PS

Fractions to Decimals 1

1b. Sean and Johnny are comparing fractions.

I think that 0.6 is greater.

Alfie

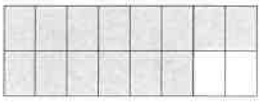
I think that $\frac{12}{20}$ is greater.

Johnny

Who is correct. Explain how you know

R

2b. Convert the fractions into decimals and write them in ascending order.

A 

B $\frac{12}{16}$

C $\frac{4}{5}$

D 

PS

3b. I am thinking of a fraction.

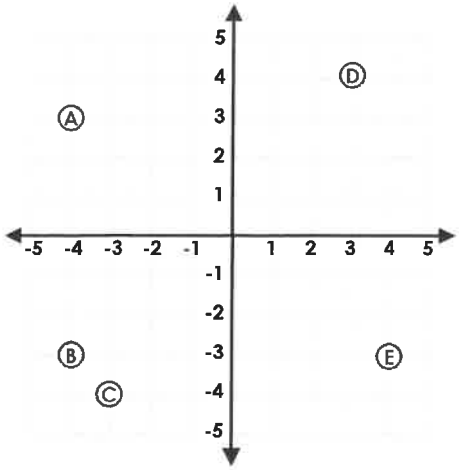
- It can be simplified.
- The denominator is a multiple of 4 less than 20.
- When converted to a decimal, it is a number with only 2 decimal places.

What is my fraction?
What is this fraction as a decimal?

PS

Four Quadrants

1a. Match the coordinates with the points on the grid.

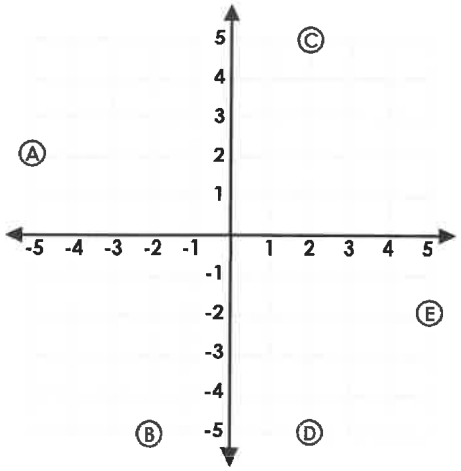


(4, -3)
(-4, 3)
(3, 4)
(3, -4)
(-4, -3)
(-3, 4)
(-3, -4)

VF

Four Quadrants

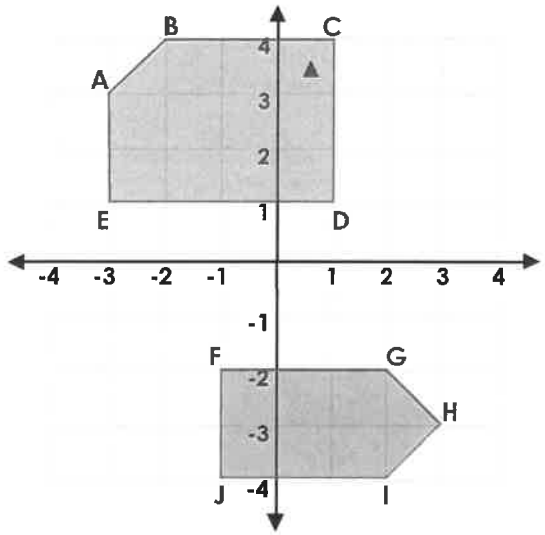
1b. Match the coordinates with the points on the grid.



(-2, 5)
(5, -2)
(-2, -5)
(2, -5)
(-5, -2)
(2, 5)
(-5, 2)

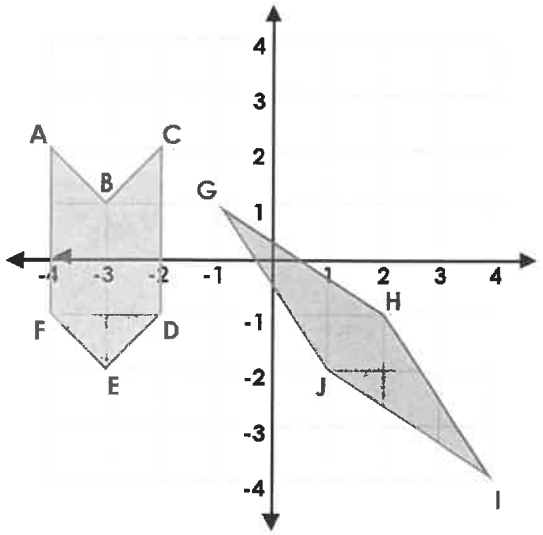
VF

2a. Write the coordinates of each shape.



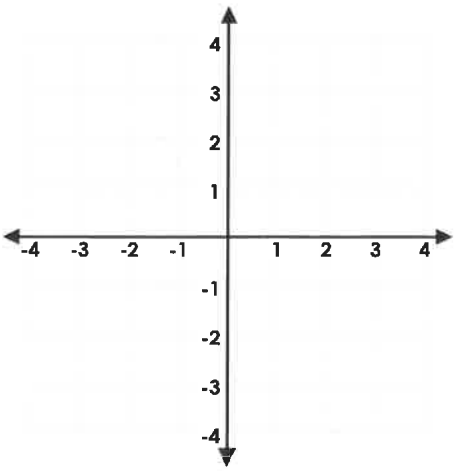
VF

2b. Write the coordinates of each shape.



VF

3a. Plot the coordinates to draw the shapes. What shapes have you drawn?

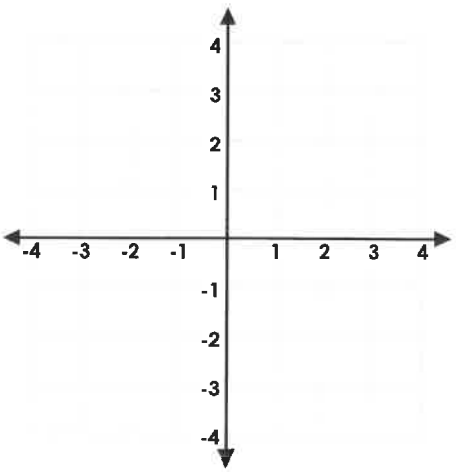


(-1, -1)
(-3, -2)
(-2, -4)
(0, -4)
(1, -2)

(-1, 3)
(-1, 1)
(1, 1)
(1, -1)
(3, -1)
(3, 3)

VF

3b. Plot the coordinates to draw the shapes. What shapes have you drawn?



(1, 2)
(2, 2)
(3, 1)
(3, 0)
(2, -1)
(1, -1)
(0, 0)
(0, 1)

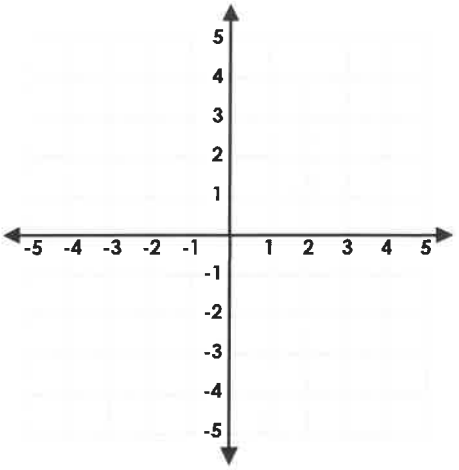
(-3, 2)
(-1, -3)
(2, -3)

VF

Four Quadrants

1a. Sam thinks that the coordinates below make a hexagon with a vertical line of symmetry.

(-1, -1)
(1, -1)
(2, 1)
(-2, 1)
(2, 3)
(-1, 3)



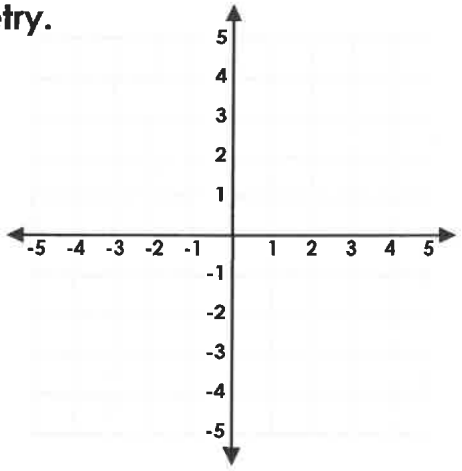
Is he correct? Explain why.

R

Four Quadrants

1b. Daisy thinks that the coordinates below make a pentagon with a vertical line of symmetry.

(0, 1)
(2, 0)
(1, -1)
(-1, -2)
(-2, 0)

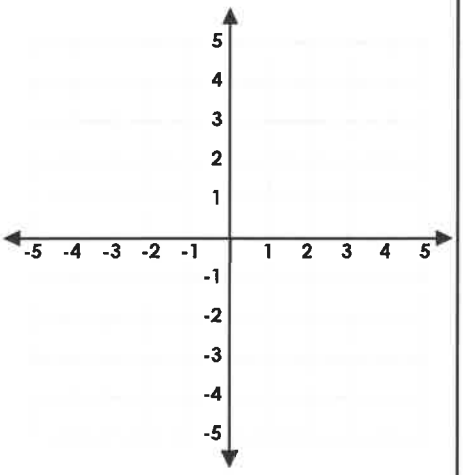


Is she correct? Explain why.

R

2a. Follow the clues. Which shapes could you draw? What could the coordinates of the shapes be?

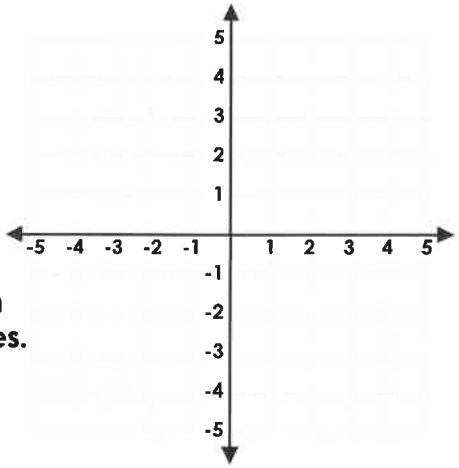
- The shape has one pair of parallel sides.
- The shape has fewer sides than a hexagon.
- The shape crosses two quadrants.
- One of the points is (-3, -4).



PS

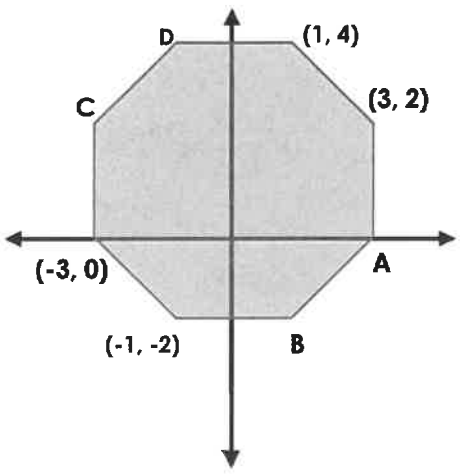
2b. Follow the clues. Which shapes could you draw? What could the coordinates of the shapes be?

- The shape is a regular polygon.
- The shape crosses all four quadrants.
- At least three points have 0 in their coordinates.
- One of the points is (2, 2).



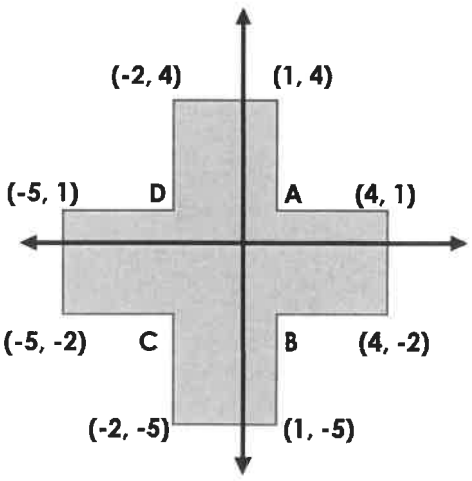
PS

3a. Here is an octagon. Use the given coordinates to find the coordinates of points A, B, C and D.



R

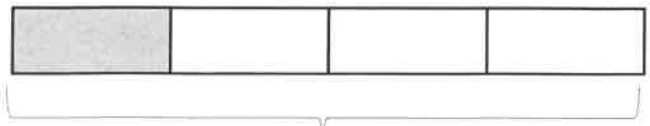
3b. Here is an dodecagon. Use the given coordinates to find the coordinates of points A, B, C and D.



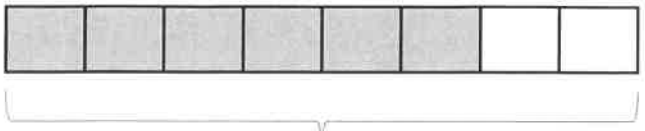
R

Fraction of an Amount

1a. Find the value of the shaded part.



9,840



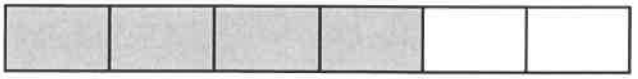
624

GD VF

Fraction of an Amount

1b. Find the value of the shaded part.

7,847



432

GD VF

2a. Match each calculation to the correct answer.

$\frac{4}{14}$ of 560	2,400
$\frac{35}{40}$ of 880	160
$\frac{10}{30}$ of 7,200	795
$\frac{15}{27}$ of 1,431	770

GD VF

2b. Match each calculation to the correct answer.

$\frac{6}{27}$ of 891	198
$\frac{50}{80}$ of 3,520	810
$\frac{35}{60}$ of 2,820	2,200
$\frac{45}{54}$ of 972	1,645

GD VF

3a. Complete each statement using <, > or =.

$\frac{15}{25}$ of 3,000 ☐ $\frac{16}{24}$ of 2,976

$\frac{35}{50}$ of 900 ☐ $\frac{6}{22}$ of 2,200

GD VF

3b. Complete each statement using <, > or =.

$\frac{8}{14}$ of 1,162 ☐ $\frac{12}{20}$ of 1,040

$\frac{15}{45}$ of 855 ☐ $\frac{9}{54}$ of 1,728

GD VF

4a. Complete the following statements.

$\frac{4}{28}$ of 1,820 = ☐

$\frac{14}{35}$ of 945 = ☐

GD VF

4b. Complete the following statements.

$\frac{8}{24}$ of 1,272 = ☐

$\frac{20}{44}$ of 352 = ☐

GD VF

Fraction of an Amount

1a. There are 720 cards in a shop. $\frac{10}{24}$ of the cards in the shop are birthday cards and $\frac{5}{30}$ of the cards are anniversary cards.

How many cards are NOT for birthdays or anniversaries?

GD PS

Fraction of an Amount

1b. There are 2,772 people at a concert. $\frac{12}{44}$ of the people at the concert are male adults and $\frac{14}{63}$ of the people are female adults. The rest are children.

How many children are at the concert?

GD PS

2a. Che and Mia are working at the same office which has 864 employees.

Che says,

I know $\frac{16}{24}$ of the employees.

Mia says,

I know $\frac{10}{18}$ of the employees.

Who knows the most employees? Convince me.

GD R

2b. Leo and Moses share £3,300.

Leo says,

I have $\frac{6}{22}$ of the money.

Moses says,

I have $\frac{10}{25}$ of the money.

Who has the most money? Convince me.

GD R

3a. Use the cards to balance the statement below. Each card can only be used once in a statement. Find 2 different solutions.

$\frac{\square}{\square}$ of 200 = $\frac{\square}{\square}$ of 250

30	24	12	40	18	50

GD PS

3b. Use the cards to balance the statement below. Each card can only be used once in a statement. Find 2 different solutions.

$\frac{\square}{\square}$ of 300 = $\frac{\square}{\square}$ of 240

25	88	22	11	55	50

GD PS

Find Pairs of Values 2

1a. Which pair of values does not satisfy the equation?

$$2a \div b = 24\frac{1}{4}$$

$a = 48.5$ $b = 4$	$a = 64$ $b = 6$	$a = 97$ $b = 8$

VF

2a. Use the numbers in the table to find all the possible combinations for the two variables below.

$$x - y = -5.5$$

10	1	12	0.5
-4.5	6	6.5	4.5

VF

3a. Work out the values of v and y.

$x = 12.5$

$x + y = 28$

$v + y = 20.5$

$y =$ ☐ $v =$ ☐

VF

4a. List three possible values for a and b, where $c = 25$.

$$3a + 2b = c$$

VF

Find Pairs of Values 2

1b. Which pair of values does not satisfy the equation?

$$2h \times \frac{1}{2}i = 60$$

$h = 15$ $i = 8$	$h = 10$ $i = 6$	$h = 12$ $i = 5$

VF

2b. Use the numbers in the table to find all the possible combinations for the two variables below.

$$2j + k = 22.5$$

11	0.5	9	6.5
2.5	10	4.5	8

VF

3b. Work out the values of s and r.

$t = 0.5$

$t \times s = 4$

$t - r = -6.5$

$s =$ ☐ $r =$ ☐

VF

4b. List three possible values for c and d, where $e = 3$.

$$2c - 2d = e$$

VF

Find Pairs of Values 2

1a. Gillian is finding possible values for x and y.

$$7x + 2y = 12.5$$

If x equals $\frac{1}{2}$, y must equal 5.5.

Is Gillian correct? Explain your answer.

R

1b. Faisan is finding possible values for a and b.

$$2a - 5b = -5$$

If a equals 2.5, b must equal 10.

Is Faisan correct? Explain your answer.

R

2a. If a is a negative number and b is 7, which of these could be true?

A. $a + b = 0$

B. $a + 3b = 16$

C. $a + 8b = 46$

D. $a + 2b - b = 3$

Convince me.

R

2b. If a is -5 and b is a decimal number, which of these could be true?

A. $a + b = -2.5$

B. $a + 3b = -3.5$

C. $a + 2b - b = 5.5$

D. $a - b = -9.5$

Convince me.

R

3a. CinePlaza sell 2 medium popcorn and 2 small popcorn for £17.50. What possible prices can you find for each popcorn?

$$2m + 2s = £17.50$$

m	s

PS

3b. Warm Wear sell 5 mittens and 5 hats for £22.50. What possible prices can you find for each item?

$$5m + 5h = £22.50$$

m	h

PS