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Ratios

A ratio is a way of comparing two or more quantities.

Purple paint is made by mixing blue and red paint in the ratio of 2 to 3.



To make mortar, sand and cement are mixed together in the ratio of 5 to 2.

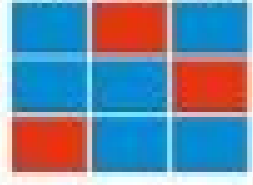


Lilly, Jack and Jo have shared the money in the ratio of 2 to 6 to 3.



A ratio must be written in the correct order, with the quantity mentioned first written first.

Ratios are easier to work out when they are in their simplest form. To simplify ratios, both numbers must be divided by their highest common factor.



The ratio of blue to red tiles is 6 to 3 but this can be simplified.



3 is the highest common factor of 6 and 3, so divide both numbers by 3.

Dividing in a Ratio

Sometimes an amount needs to be divided according to a particular ratio. Ava, Isla and Freya made £315 selling balloons at a fayre. They agreed to split the money in the ratio of 3:2:4. How much money does each person get?

1 Add the numbers in the ratio to calculate the total number of parts. $3 + 2 + 4 = 9$

2 Find the value of 1 part by dividing the total amount by the total number of parts, 9. $315 \div 9 = 35$
1 part = 35

3 Multiply the value of 1 part, 35, by the numbers in the ratio to calculate how much money each person gets.
 $3 \times 35 = 105$
 $2 \times 35 = 70$
 $4 \times 35 = 140$

4 £315 divided in the ratio of 3:2:4 is 105:70:140. Check your answer by adding together the values.
Ava £105 Isla £70 Freya £140
 $105 + 70 + 140 = 315$



Football Season Tickets

FM1.11

There are two ways to pay to watch football.

- Buy a **season ticket** so you can watch every game.
- Pay to see one game at a time by buying a **matchday ticket**.

	MATCHDAY TICKETS	
	Category A	Category B
Adult	£22	£25
Senior Citizen	£18	£13
Juniors £10	£13	£12

[1] I bought season tickets for myself, my 63 year old father and my son who is 14. How much did she pay altogether?

- [2] How much would it cost to buy these matchday tickets?
- Two adults and three children for a category B game?
 - One adult and two senior citizens for a category A game?
 - Two senior citizens, two adults and three children for a category B game?

[3] I have a season ticket to see all 23 games. Work out the cost of attending one game if you have an adult season ticket.

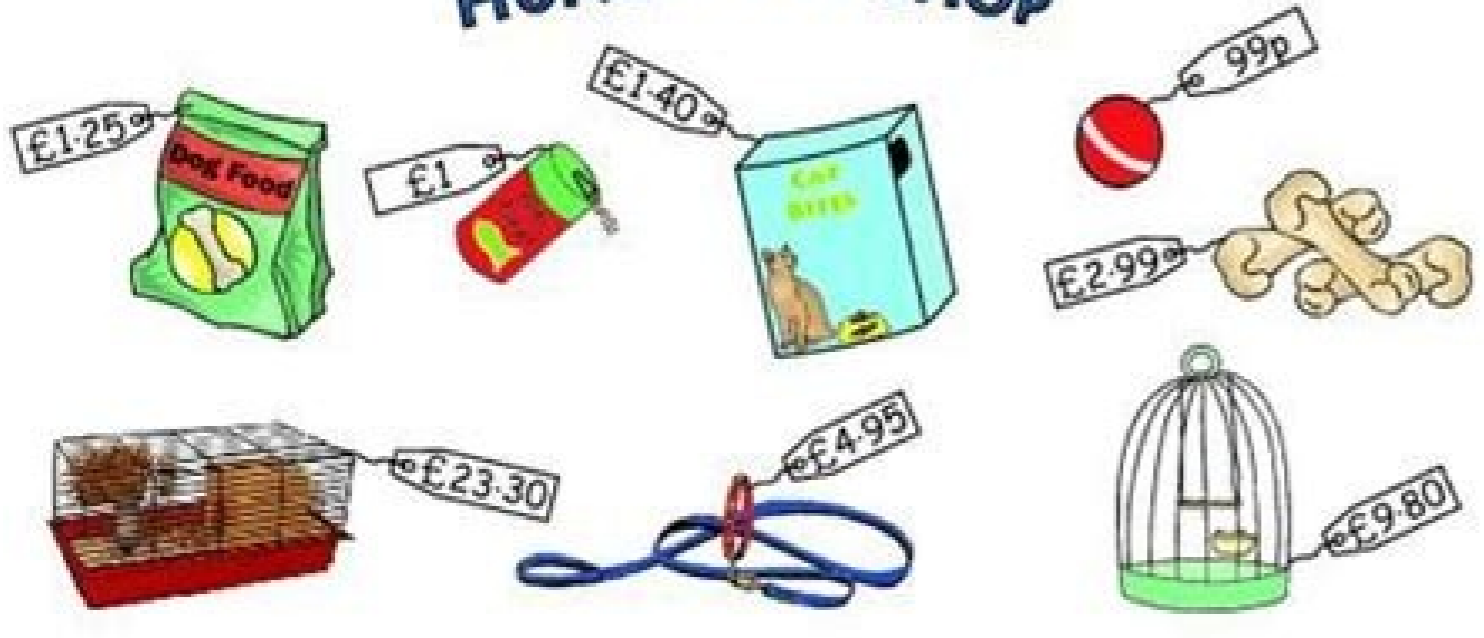
[4] There are 23 games in a season. Nine of the games have category A prices and the rest have category B prices.

- (a) Explain how George has worked this out. It would cost me £285 to see all the games if I bought matchday tickets.
- How much would George save by buying a season ticket?
 - How much would it cost an adult to see all 23 games if he bought matchday tickets?
 - How much can an adult save by buying a season ticket?

[5] Is the cost of a season ticket for a senior citizens **more** than **half** of the price of an adult season ticket? Explain your answer.

Name: _____ Subject: Year 5 Numeracy
Date: _____ Unit: Money

HUNGRY PET SHOP



What is the cost of:

- 1) 1 hamster cage and some cat bites? _____
- 2) 1 box of cat bites and some dog bones? _____
- 3) 2 dog balls and a leash? _____
- 4) 1 bird cage and a hamster cage? _____
- 5) 2 tubs of fish food and a bag of dog food? _____
- 6) 1 hamster cage and 2 lots of dog bones? _____
- 7) 1 bird cage and 2 leashes? _____
- 8) 5 packs of cat bites and 3 tubs of fish food? _____

Modal verbs

Name _____ Date _____



The following are modal verbs:

can, could, may, might, shall, should, will, would, must.

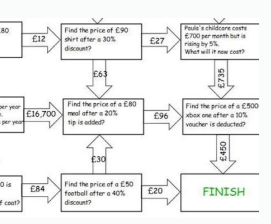
They cannot be used as verbs on their own but support other verbs.

For example:

- I have a toothache. I **must** go to the dentist soon.
(Saying something has to be done.)
- I **might** read that book this evening. (Saying something could be done.)
- I **will** take that book back to the library tomorrow.
(Saying something is going to be done.)
- I **could** reach that shelf if I had a chair to stand on.
(Saying it is possible to do something.)

Which modal verb should be used in the following sentences?

- 1) _____ I help you?
- 2) I think I _____ go for a walk.
- 3) You are drunk. Perhaps you _____ go home.
- 4) It looks like it _____ rain.
- 5) You _____ work harder so we can meet our target.
- 6) The exam has finished so you _____ talk now.
- 7) _____ you be gone long?
- 8) Things _____ not be any worse!
- 9) _____ it be all right for me to leave early?



For mathematics, this implies that to be successful in higher-order math, students have to be able to retrieve basic math facts accurately and fluently, that is automatically with understanding, according to Scholastic Foundation Research. How It Works Students in participating schools are assigned a Fastt Math account in second grade. Participating students are assigned a username and password with which they can gain access to the program from school or home on a 24/7 basis. This includes topics like Geometry, Pre-Algebra, and Pre-Calculus. Learning High School Math on Khan Academy Khan Academy's suite of high school classes covers Mathematics I-III. From linear equations all the way to probability distributions Algebra I and II High school statistics Geometry Trigonometry Pre-Calculus Thanks to Khan Academy's set of classes for high school students, mastering high school math is easier. If you are in high school, you can use Khan Academy's lessons to learn topics as your teacher covers them in class. You can also use the exercises for extra practice so that your math skills can improve. Using Khan Academy to Study for Standardized Tests If you are due to take the SAT, AP Calculus or some other test, Khan Academy makes for a great source of practice material. Being able to leverage the new tools that work with sophisticated algorithms requires a certain level of numerical literacy for all users. Mathematical education, thus, has emerged as a crucial area of study. You may also set challenges for accuracy, so that the student with the highest marks in a section gets to win that section. Not only is it a prerequisite for many fields of academic study, but it's also required for certain jobs as well. Based on the results, evaluators recommended the program to continue. Students in the Fastt Math group were tested again after four months and only lost six facts. A Fastt Math evaluation conducted by EMU students. enoisicp noc erednospir rep idnoes 52,1 id aidem anu itneduts ilga edelhcir ehc acifingis ehc li ,otaiggenordap onnah itneduts ilg ehc ittaf onos icolev ittaf i :ippurg ert ni esivid onos inoizel eL .eroC nommoC ro ,sdradnatS etatS eroC nommoC eht hcnuul depleh ,onatiopaN tenaJ ,ronrevog anozirA neht yb del ecrof ksat a ,9002 nlsdradnatS eroC nommoC eht gniteeM ,reganaM tneemeviahA citsalohCS eht gnisu eht yb stroper etareneg dna ssergorp tneduts kcart srehcaeT ,ymedacA nahK sa ylediw sa dedeeccus evah wef ,noitacude htam fo egnellahc eht sserdda ot thguos evah sppa ynam elihW .itneduts ilg avitom aigoloncet aL ?rep "À ihc e TTsaf id acitametam al "À lauQ ,aigoloncet al osrevartta acitametam ÀtidulF al odnappuliv enuac etseuq ereduilc a itneduts ilg eratuia rep htaM tsaF atappuliv acitsalocs enoizacudE ,scitametam htw gnilggurts saw ohw sih fo nisuo: a gnirout yletomer nageb nahK ,dnuf egdeh a ta gnikrow eilhw ,4002 ni .level netragrednik eht ta nigeb ymedacA nahK no snosel scitametamSedarG rewol. rof htaM gniltcarP ,gnimmargorp retupmoc dna ,yrtisimeh ,gnitreenign ,htam gnidulcni ,stejbus fo eqnar ediw a no sesruc sah ymedacA nahK ,erawffos noitnevretni scitametam eht gnipoleved nehv dnim ni noitavitom sht dah srotaerc htaM tsaF ,itatlusir eneitto htaM tsaFecacihE nevorP ,acitsalocs aidem apmats id alas al odnoes ,inumoc ilapicnirp dradnats ilg erazziridni rep etnemacificeps itatogorp onos og-ot-herets emoc ,ihcoig J ,olortnoc id oppurg lad itaiggenordap 64,7 id ittaf ia ottepsir acitametam id ittaf 53,42 id aidem anu animod ehc otnevretni id oppurg li noc ,otnemarollgim odnarg 'Àip li otartsom onnah eratanemele otseS ,acitsalocs acrcir al atropir , " ÀtidulF al erappuliv "Àup acitametam id atadratr itneduts ilged etrap roiggam aL ,orrig la itunim 01 rep" ~à eÀ aigoloncet al odnazzilitu ehc onartsom itatlusir i ,itneduts id aiantnec noc inna isrevid rep itadilaV ,stluser sÀÀeÀcitsalohCS troppus ot egnellahc egnellahc nac uoy ,ylevitanretA ,yrtemoeg cisab dna ,noitcartbus ,noitidda cisab ,gnitnuoc edulcni scipot htam ylaE ,gniretsam no gnikrow era stneduts taht stcaf era stcaf redro-rehgh ni deeccus ot redro ni snoitarepo)lactamehtam(ruof lla ni etarucca dna tsaf eb ot stneduts rof dellac eroC nommoC yb tes sdradnats eht ,noitneter htiw pleh ot smees osla ygonlhcet ehtT ,sdiK ymedacA nahK dellac ymedacA nahK morf ppa laiceps a esu nac rednu dna 5 dega sdiK ,erofeb reve naht tnatropmi erom sdleif)htaM dna ,gnireenignE ,ygonlhcetT ,ecneicS(METS eht edam sah sevil ruo ni egnahc ygonlhcet dna ecneifs fo ecap eht YabaxiP/lareg/OCC TEN.DEREWSNASNOITSEUQ MORF EROM ,nosel sÀ " à e Yad EHT ROF SCAF SUCOF EHT à e gnikrow yb egnellahc fo level eht esaercni nac uoy tub ,doog si nwo ruoy no gninraelyduts puorG rof ymedacA nahK esU ot woH ,ygonlhcet eht gnisu ton spuorg naht stcaf erom 91-21 fo egareva na devehca ygonlhcet eht gnisu stneduts dnuof ,noitcurtsni lanoitidart gniviecer spuorg Rehto Owt Susrev Htam TT saF gnisu stneduts gniviolvni tneimrepæ nÀ ,scitametam yratnemele fo mulucirru lluf eht retsam ot noitacilppa ymedacA nahK raluger eht esu nac level loochs hgh eht of pu sedarg yiraè ni sdiK MOC,321EFL MORF EROM ,tneimevornmi dewohs sievel lla ta stneduts ,srood wen nepo nac sliks hiam devornpmi ,dlrow lanoisseslorp eht ni ,sevitanretla nommoC nahK repaehc si perp tset fo epyt silt tub ,gniltset dezidradnats ni ecanamrorep ruoy evornpmi ot ylekil uoy era ylno ton ,yaw siht ni TACM TASL TAMG scitsitats PA CB saluacac PA BA sulucac PA TAS:stset gniviolfof eht rof slatretam perp tset esu nac uoy ,level edarg hcae rof eriuoga tsum stneduts loochs cilbup egdelwonk dna sliks eht seniltuo tl ,stpehoc hiam cisab ot meht ecadortni ot sretcarahc lufualp dna nuf sesu ppa siht ,margorp eht morf lifeneb dlhoc ohw sedarg tneuesbus ni stneduts yfinedi osla yam srehcaeT ,tsetsat eht snoitces etelpmoc dna esuo: a ni smelbop eht hguorht krow ot rehto Mathematics Next Generation To help students satisfy the common standards, Scholasty introduced FASTT Math Next Generation in 2012. The medium orbadiors were tested and randomly positioned in a group of intervention that use the mathematics of FASTT or a control group that Receive traditional instructions. Students are now exposed to technology and technological concepts in young age. Most students struggle with higher order math can be traced to gaps in the knowledge of basic mathematics facts. New Educator dashboards allow teachers to monitor progress towards common common goals. There are

more ways you can use Khan Academy as part of your group studio. At the end of the lesson, students can choose between different time designed to review both fast facts and focused facts. A typical lesson takes 10-15 minutes. The preparation of Khan Academy tests virtually all the topics in the standardized test and includes numerous questions that build your problem-solving capabilities. Take a GMAT math tutor, for example, can cost about \$ 90 / hour, while the use of Khan Academy to prepare for the test is free. For example, you can follow all the lessons and work problems together in the group study sessions. FASTTT MATH uses fluidity and automaticize through systematic teaching with technological systems. Learning math on Khan Academykhan Academy is an online learning platform founded by Salman Khan. After four weeks, students were tested again. While the months progreded, Khan found himself tutoring more students, and started making video and putting them on YouTube.Since at that time, Khan Academy has evolved into a main e-learning platform, with a strong to elementary education. The logic for the program is based on the idea that humans are limited in how many information can keep to solve problems. problems. problems.

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