Maths Work Booklet

STANGROUND ACADEMY

Name _____

Teacher: Miss C Henderson or Mr Tee

My Maths Username: stanground Password: Square

MyMaths portal username:

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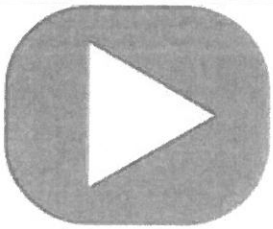
Corbett maths

Rounding

Videos 277a, 277b on Corbettmaths

Examples

Workout



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Question 1: Round the following numbers to the nearest 10

(a) 32	(b) 67	(c) 71	(d) 24
(e) 59	(f) 92	(g) 16	(h) 83
(i) 17	(j) 14	(k) 78	(l) 43
(m) 84	(n) 27	(o) 25	(p) 41
(q) 75	(r) 33	(s) 95	(t) 98
(u) 19	(v) 99	(w) 62	(x) 54
(y) 15	(z) 74		

Question 2: Round the following numbers to the nearest 10

(a) 121	(b) 146	(c) 164	(d) 185
(e) 292	(f) 238	(g) 312	(h) 333
(i) 845	(j) 582	(k) 233	(l) 167
(m) 596	(n) 705	(o) 502	(p) 993
(q) 998	(r) 1241	(s) 1628	(t) 1164
(u) 2673	(v) 6036	(w) 7555	(x) 8128
(y) 13821	(z) 29234		

Question 3: Round the following numbers to the nearest 10

(a) 24.2	(b) 61.9	(c) 76.8	(d) 26.4
(e) 14.7	(f) 231.8	(g) 185.3	(h) 201.5
(i) 78.38	(j) 135.14	(k) 141.97	(l) 164.89
(m) 4938.3	(n) 5141.49	(o) 15.455	(p) 1009.02

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Question 4: Round the following numbers to the nearest 100

(a) 390 (b) 220 (c) 160 (d) 240

(e) 518 (f) 842 (g) 756 (h) 547

(i) 371 (j) 578 (k) 613 (l) 888

(m) 374 (n) 611 (o) 673 (p) 480

(q) 150 (r) 349 (s) 951 (t) 950

(u) 850 (v) 949 (w) 748 (x) 540

(y) 450 (z) 495

Question 5: Round the following numbers to the nearest 100

(a) 1430 (b) 1280 (c) 1610 (d) 1550

(e) 4030 (f) 6080 (g) 7420 (h) 8160

(i) 3562 (j) 2415 (k) 8283 (l) 5858

(m) 9248 (n) 3358 (o) 4214 (p) 9987

(q) 13494 (r) 16148 (s) 13114 (t) 15832

(u) 26783 (v) 56862 (w) 45555 (x) 13668

(y) 489481 (z) 124346

Question 6: Round the following numbers to the nearest 100

(a) 248.2 (b) 561.9 (c) 716.8 (d) 246.4

(e) 149.7 (f) 2315.8 (g) 1835.3 (h) 2061.5

(i) 2378.38 (j) 5135.14 (k) 9141.97 (l) 4164.89

(m) 44938.3 (n) 25141.49 (o) 1995.455 (p) 51009.02

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Rounding

Videos 277a, 277b on Corbettmaths

Question 7: Round the following numbers to the nearest 1000

(a) 2300 (b) 5600 (c) 2900 (d) 8200

(e) 7200 (f) 8420 (g) 2780 (h) 4500

(i) 1930 (j) 6480 (k) 7710 (l) 5500

(m) 4951 (n) 7571 (o) 7456 (p) 5499

(q) 7395 (r) 3112 (s) 3661 (t) 5532

(u) 4945 (v) 9442 (w) 9550 (x) 9499

(y) 9934 (z) 7409

Question 8: Round the following numbers to the nearest 1000

(a) 21800 (b) 18300 (c) 17600 (d) 19200

(e) 11590 (f) 16350 (g) 24500 (h) 34800

(i) 38434 (j) 84925 (k) 48358 (l) 56187

(m) 123940 (n) 293482 (o) 231184 (p) 563921

Question 10: Round the following numbers to the nearest 10000

(a) 39304 (b) 23424 (c) 44500 (d) 26492

(e) 26500 (f) 54588 (g) 62049 (h) 75000

(i) 418553 (j) 144503 (k) 185000 (l) 384458

Question 11: Round the following numbers to the nearest 100000

(a) 384000 (b) 129400 (c) 569000 (d) 812300

(e) 384984 (f) 750000 (g) 1284000 (h) 2840000

Question 12: Round the following numbers to the nearest 1000000

(a) 1492000 (b) 5600000 (c) 7308000 (d) 6670000

(e) 12800000 (f) 17450000 (g) 35700000 (h) 384728521

Corbett maths

Rounding

Videos 277a, 277b on Corbettmaths

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Corbett maths

Rounding

Videos 277a, 277b on Corbettmaths

Apply

Question 1: 645 people attended a concert. Round this to the nearest 10.

Question 2: 861 students attend a school. Round this to the nearest 100.

Question 3: The cost of a laptop is £1348. Round this to the nearest £100.

Question 4: 24,812 people attended a football match. Round this to the nearest thousand.

Question 5: The population of a city is 85,398. Round this to the nearest thousand.

Question 6: The number of beads in a jar is 50 to the nearest ten.
(a) What is the minimum possible number of beads in the jar?
(b) What is the maximum possible number of beads in the jar?

Question 7: The number of students at a school is 1200 to the nearest 100.
What is the maximum possible number of students at the school?

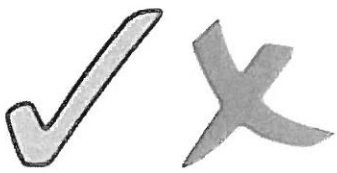
Question 8: The population of a village is 900 to the nearest 100.
State if the following could be true or false:

(a) 890 people live in the village.
(b) 960 people live in the village.
(c) 912 people live in the village.
(d) 845 people live in the village.
(e) 850 people live in the village.
(f) 950 people live in the village.

Question 9: The value of a car is £7000 to the nearest thousand pounds.
(a) What is the least possible value of the car?
(b) What is the greatest possible value of the car?

Question 10: The number of people at a concert is 200 to the nearest 10.
(a) What is the least possible number of people at the concert?
(b) What is the greatest possible number of people at the concert?

Answers



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Corbett maths

Division by 10, 100, 1000 etc

Video 99 on www.corbettmaths.com

Question 4: Work out each of the following divisions

(a) $56 \div 10$	(b) $48000 \div 100$	(c) $3 \div 1000$	(d) $52 \div 1000$
(e) $6 \div 100$	(f) $312 \div 10$	(g) $4.5 \div 100$	(h) $0.9 \div 10$
(i) $25 \div 100$	(j) $8001 \div 1000$	(k) $4.1 \div 1000$	(l) $0.75 \div 10$
(m) $3.5 \div 100$	(n) $50.89 \div 100$	(o) $0.018 \div 100$	(p) $0.679 \div 1000$
(q) $0.888 \div 10$	(r) $3094.5 \div 100$	(s) $255.21 \div 10$	(t) $39.001 \div 1000$

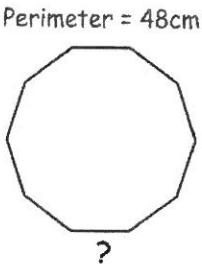
Apply

Question 1: Vicky saves £10 each week.
She wants to buy a violin that costs £180
How many weeks will it take Vicky to save enough money?

Question 2: Barry prints booklets that each have 100 pages.
In total, he prints 6000 pages.
How many booklets did Barry print?

Question 3: A box of staples contains 1000 staples.
A secretary wants to order 3000000 staples.
How many boxes of staples should they order?

Question 4: A decagon has 10 sides.
The decagon below is regular, which means that all sides are the same length.
Work out the length of each side of the decagon.

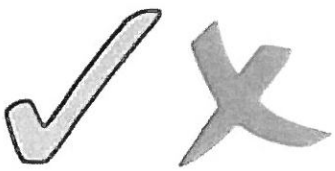


Question 5: A bakery makes 2600 cupcakes in a week.
The cupcakes are placed into boxes of 10.
Each box of cupcakes is sold for £3.
How much money does the bakery make for selling the cupcakes?

Question 6: Work out the missing numbers

(a) $\square \times 10 = 0.009$ (b) $\square \times 100 = 0.53$

Answers



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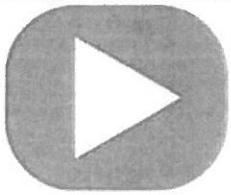
Corbett maths

Division by 10, 100, 1000 etc

Video 99 on www.corbettmaths.com

Examples

Workout



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Question 1: Work out each of the following divisions

(a) $30 \div 10$ (b) $90 \div 10$ (c) $120 \div 10$ (d) $250 \div 10$

(e) $800 \div 10$ (f) $380 \div 10$ (g) $4000 \div 10$ (h) $1600 \div 10$

(i) $9 \div 10$ (j) $2 \div 10$ (k) $1 \div 10$ (l) $7 \div 10$

(m) $72 \div 10$ (n) $15 \div 10$ (o) $93 \div 10$ (p) $219 \div 10$

(q) $3414 \div 10$ (r) $109 \div 10$ (s) $2015 \div 10$ (t) $870 \div 10$

(u) $0.6 \div 10$ (v) $0.3 \div 10$ (w) $0.15 \div 10$ (x) $0.08 \div 10$

Question 2: Work out each of the following divisions

(a) $200 \div 100$ (b) $500 \div 100$ (c) $900 \div 100$ (d) $1400 \div 100$

(e) $4800 \div 100$ (f) $6200 \div 100$ (g) $3000 \div 100$ (h) $1000 \div 100$

(i) $17000 \div 100$ (j) $53000 \div 100$ (k) $2810 \div 100$ (l) $9145 \div 100$

(m) $180 \div 100$ (n) $375 \div 100$ (o) $520 \div 100$ (p) $70 \div 100$

(q) $40 \div 100$ (r) $17 \div 100$ (s) $5 \div 100$ (t) $2 \div 100$

(u) $2.9 \div 100$ (v) $0.8 \div 100$ (w) $0.35 \div 100$ (x) $4.2 \div 100$

Question 3: Work out each of the following divisions

(a) $4000 \div 1000$ (b) $7000 \div 1000$ (c) $16000 \div 1000$ (d) $86000 \div 1000$

(e) $50000 \div 1000$ (f) $370000 \div 1000$ (g) $1900 \div 1000$ (h) $4250 \div 1000$

(i) $5833 \div 1000$ (j) $900 \div 1000$ (k) $820 \div 1000$ (l) $41 \div 1000$

(m) $2 \div 1000$ (n) $13 \div 1000$ (o) $9 \div 1000$ (p) $0.3 \div 1000$

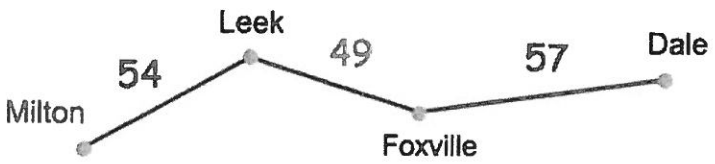
(q) $1.55 \div 1000$ (r) $0.51 \div 1000$ (s) $0.02 \div 1000$ (t) $3.08 \div 1000$

(u) $67000000 \div 1000$ (v) $0.045 \div 1000$

Addition

Video 6 on www.corbettmaths.com

Question 3: The distances, in kilometres, between four towns are shown on the map.



(a) Work out the distance between Leek and Dale.
(b) Work out the distance between Milton and Dale

Question 4: In year 7 there are 238 students.
In year 8 there are 225 students.
In year 9 there are 233 students.

How many students are there in total in years 7, 8 and 9?

Question 5: Copy these additions into your book and fill in the missing numbers.

(a)

$$\begin{array}{r} 5\ 4 \\ +\ 3\ \square \\ \hline \square\ 9 \end{array}$$

(b)

$$\begin{array}{r} 4\ \square \\ +\ \square\ 4 \\ \hline 7\ 2 \end{array}$$

(c)

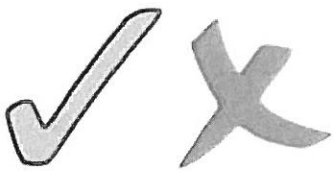
$$\begin{array}{r} 5\ \square\ \square \\ +\ \square\ 7\ 1 \\ \hline 9\ 3\ 4 \end{array}$$

Question 6: Can you spot any mistakes in the questions below?

$$\begin{array}{r} 8\ 5\ 9 \\ +\ 1\ 7\ 6 \\ \hline 1\ 0\ 2\ 5 \end{array}$$

$$\begin{array}{r} 2\ 8\ 2 \\ 3\ 9\ 9 \\ +\ 6\ 7\ 5 \\ \hline 1\ 2\ 5\ 6 \end{array}$$

Answers



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Addition

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Examples

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Workout

Question 1: Work out the answers to the following additions

(a) 51 + 37 (b) 27 + 21 (c) 37 + 44 (d) 84 + 19

(e) 48 + 48 (f) 39 + 21 + 43 (g) 75 + 56 (h) 93 + 84

Question 2: Work out these additions

(a) 123 + 564 (b) 557 + 61 (c) 839 + 152 (d) 357 + 368

(e) 940 + 346 (f) 382 + 121 + 85 (g) 948 + 253 (h) 777 + 444

Question 3: Complete these additions

(a) 4854 + 1162 (b) 4611 + 3270 (c) 5792 + 4437 (d) 4780 + 1590

(e) 939 + 1103 (f) 2385 + 5584 (g) 8888 + 4424 (h) 5118 + 3054 + 1112

Question 4: Work out

(a) 48832 + 14503 (b) 39104 + 22934 (c) 8383 + 11385 + 7673 + 711

Apply

Question 1: Daniel buys an apple for 39p and a banana for 27p. How much does he pay in total?

Question 2: James has 86 marbles and Hannah has 95 marbles. How many marbles do they have altogether?

Corbett maths

Multiplication by 10, 100, 1000

Video 202 on www.corbettmaths.com

Examples

Workout

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Question 1: Work out each of the following multiplications

(a) 3×10 (b) 8×10 (c) 12×10 (d) 16×10

(e) 25×10 (f) 42×10 (g) 78×10 (h) 20×10

(i) 90×10 (j) 112×10 (k) 203×10 (l) 140×10

(m) 529×10 (n) 400×10 (o) 1925×10 (p) 3500×10

(q) 2710×10 (r) 50000×10 (s) 6204×10 (t) 99099×10

Question 2: Work out each of the following multiplications

(a) 0.2×10 (b) 0.8×10 (c) 0.1×10 (d) 1.3×10

(e) 5.8×10 (f) 15.1×10 (g) 20.5×10 (h) 357.4×10

(i) 0.06×10 (j) 0.14×10 (k) 0.42×10 (l) 3.07×10

(m) 0.009×10 (n) 0.0053×10 (o) 0.105×10 (p) 0.0381×10

(q) 3.4905×10 (r) 0.25801×10 (s) 400.05×10 (t) 122.08×10

Question 3: Work out each of the following multiplications

(a) 4×100 (b) 7×100 (c) 15×100 (d) 28×100

(e) 30×100 (f) 90×100 (g) 165×100 (h) 593×100

(i) 520×100 (j) 203×100 (k) 400×100 (l) 100×100

(m) 2000×100 (n) 3902×100 (o) 2030×100 (p) 40001×100

Question 4: Work out each of the following multiplications

(a) 0.3×100 (b) 0.9×100 (c) 0.02×100 (d) 0.05×100

(e) 0.15×100 (f) 0.23×100 (g) 5.8×100 (h) 4.13×100

Corbett maths

Multiplication by 10, 100, 1000

Video 202 on www.corbettmaths.com

(i) 3.08×100 (j) 0.822×100 (k) 0.606×100 (l) 0.004×100

(m) 320.4×100 (n) 2.3802×100 (o) 0.00351×100 (p) 105.1×100

Question 5: Work out each of the following multiplications

(a) 5×1000 (b) 9×1000 (c) 18×1000 (d) 45×1000

(e) 40×1000 (f) 70×1000 (g) 200×1000 (h) 595×1000

(i) 710×1000 (j) 909×1000 (k) 900×1000 (l) 1000×1000

(m) 8000×1000 (n) 5800×1000 (o) 5040×1000 (p) 60000×1000

Question 6: Work out each of the following multiplications

(a) 0.2×1000 (b) 0.8×1000 (c) 1.4×1000 (d) 8.3×1000

(e) 0.06×1000 (f) 0.007×1000 (g) 17.5×1000 (h) 30.9×1000

(i) 4.45×1000 (j) 0.48×1000 (k) 0.033×1000 (l) 0.0081×1000

(m) 0.403×1000 (n) 0.2002×1000 (o) 1.0934×1000 (p) 93.0491×1000

Question 7: Work out each of the following multiplications

(a) 76×10 (b) 230×100 (c) 3×1000 (d) 52×1000

(e) 6×100 (f) 352×10 (g) 4.5×100 (h) 0.9×10

(i) 25×100 (j) 8001×1000 (k) 4.1×1000 (l) 0.75×10

(m) 3.5×100 (n) 50.89×100 (o) 0.018×100 (p) 0.679×1000

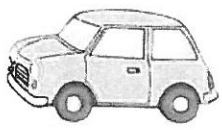
(q) 0.888×10 (r) 3094.5×100 (s) 255.21×10 (t) 39.001×1000

(u) 3.005×10 (v) 0.005×100 (w) 8900×100 (x) 0.011×1000

(y) 94.6×100 (z) 4.99×1000

Apply

Question 1: Natalie saves £100 a month towards a new car.
How much money will she have saved after 11 months?



Corbett maths

Multiplication: Times Tables

Video 204a on Corbettmaths

Apply

Question 1: Martin works for 7 hours and is paid £8 per hour. How much is he paid?

Question 2: Russell is given £4 pocket money each week.
He is saving for a game that costs £32.
How many weeks will it take Russell to save enough money to buy the game?

Question 3: A carton holds 6 eggs.
How many eggs are there in 7 full boxes?

Question 4: Harry earns £9 per hour and works 7 hours.
Carly earns £11 per hour and works 6 hours.
Who earns more money and by how much?

Question 5: Gregory says "when an odd number is multiplied by an odd number, the answer is always odd."

Is Gregory correct?

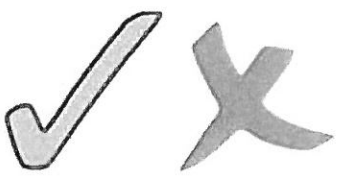
Question 6: A small bag of doughnuts contains 5 doughnuts.
A medium bag of doughnuts contains 9 doughnuts.
A large bag of doughnuts contains 12 doughnuts.

Mr Jones buys 9 small bags of doughnuts.
Miss Jenkins buys 7 medium bags of doughnuts.
Mrs Hughes buys 4 large bags of doughnuts.

(a) Who has bought the most doughnuts?

(b) How many doughnuts did they buy in total?

Answers



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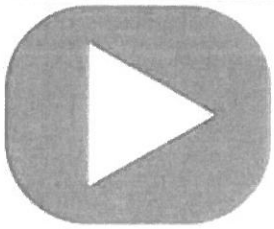
Corbett maths

Multiplication: Times Tables

Video 204a on Corbettmaths

Examples

Workout



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Question 1: Answer the following multiplications

(a) 3 x 3	(b) 5 x 4	(c) 6 x 2	(d) 3 x 10
(e) 3 x 5	(f) 2 x 9	(g) 1 x 1	(h) 7 x 2
(i) 1 x 4	(j) 3 x 2	(k) 5 x 10	(l) 2 x 8
(m) 7 x 5	(n) 1 x 8	(o) 3 x 6	(p) 3 x 9
(q) 5 x 9	(r) 5 x 5	(s) 7 x 10	(t) 10 x 9
(u) 2 x 11	(v) 4 x 3	(w) 3 x 7	(x) 10 x 10

Question 2: Work out each of the following

(a) 4 x 8	(b) 9 x 10	(c) 6 x 6	(d) 7 x 8
(e) 9 x 6	(f) 8 x 6	(g) 9 x 7	(h) 9 x 9
(i) 7 x 6	(j) 9 x 4	(k) 11 x 8	(l) 6 x 8
(m) 5 x 6	(n) 7 x 7	(o) 8 x 9	(p) 8 x 8
(q) 12 x 3	(r) 3 x 8	(s) 5 x 12	(t) 11 x 11
(u) 6 x 9	(v) 12 x 12	(w) 0 x 8	(x) 12 x 11

Question 3: Work out each of the following

(a) 30 ÷ 10	(b) 10 ÷ 5	(c) 8 ÷ 4	(d) 9 ÷ 3
(e) 25 ÷ 5	(f) 15 ÷ 3	(g) 21 ÷ 7	(h) 18 ÷ 6
(i) 24 ÷ 6	(j) 30 ÷ 5	(k) 40 ÷ 4	(l) 16 ÷ 4
(m) 49 ÷ 7	(n) 63 ÷ 9	(o) 64 ÷ 8	(p) 54 ÷ 6
(q) 72 ÷ 8	(r) 56 ÷ 7	(s) 48 ÷ 8	(t) 36 ÷ 6

Corbett maths

Ratio: Simplifying

Video 269 on www.corbettmaths.com

Examples

Workout

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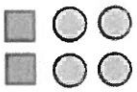
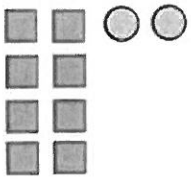
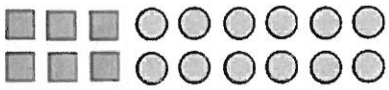
Question 1: For each of the following, write down the ratio of red squares to green circles. Give your ratios in their simplest forms.

(a) 

(b) 

(c) 

Question 2: Simplify the following ratios

(a) 4 : 6	(b) 14 : 8	(c) 15 : 10	(d) 6 : 15
(e) 30 : 10	(f) 12 : 16	(g) 6 : 18	(h) 45 : 10
(i) 12 : 28	(j) 24 : 36	(k) 25 : 60	(l) 27 : 63
(m) 48 : 60	(n) 120 : 260	(o) 8000 : 75	(p) 33 : 121
(q) 2.5 : 4.5	(r) 1.5 : 20	(s) 6 : 1.2	(t) 2.25 : 4.95

Question 3: Write the following as ratios in their simplest forms.

(a) £4 to £20	(b) 240cm to 400cm	(c) 50 minutes to 20 minutes
(d) 60kg to 72kg	(e) 12 miles to 30 miles	(f) 15cm to 75cm
(g) 8.5g to 3.5g	(h) £0.50 to £20	(i) 1.02 litres to 0.74 litres

Question 4: Write the following as ratios in their simplest forms.

(a) 8 days to 2 weeks	(b) 1 hour to 15 minutes	(c) 2 hours to 1 day
(d) 95p to £3.00	(e) 400m to 1.5km	(f) 15kg to 900g
(g) 4500ml to 2 litres	(h) 8km to 50mm	(i) 90 minutes to 2 days

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Ratio: Simplifying

Video 269 on www.corbettmaths.com

Question 6: Shannon is revising for her summer exams.
The table below shows the number of minutes Shannon spends revising on each of 5 evenings.
It also shows the number of minutes Shannon spends relaxing on the 5 evenings.

	Monday	Tuesday	Wednesday	Thursday	Friday
Number of minutes revising	88	198	150	133	160
Number of minutes relaxing	20	40	28	25	34

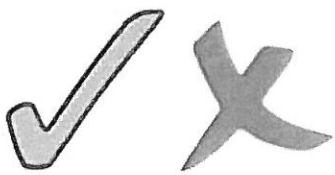
Shannon wants to spend at least 5 minutes revising for every 1 minute of relaxing.
On which days did Shannon spend enough time revising?

Question 7: Four teachers are planning school trips.
The table shows the number of students and the number of teachers planned to go on the trip.

	Karting	Museum	Theme Park	University
Number of students	140	221	342	159
Number of teachers	8	12	19	9

For every 18 students there must be at least 1 teacher.
Which trips have planned to bring enough teachers?

Answers



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Ratio: Simplifying

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Question 5: Express each of the following ratios in the form 1 : n

(a) 2 : 3 (b) 5 : 4 (c) 4 : 10 (d) 10 : 7

(e) 8 : 13 (f) 5 : 81 (g) 100 : 131 (h) 200 : 77

(i) 25 : 29 (j) 21 : 40

Question 6: Express each of the following ratios in the form n : 1

(a) 7 : 2 (b) 9 : 5 (c) 11 : 3 (d) 5 : 8

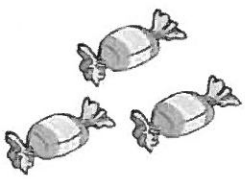
(e) 3 : 10 (f) 19 : 20 (g) 207 : 50 (h) 38 : 55

Apply

Question 1: Daisy mixes 50 ml of orange juice with 200 ml of water.
Write down the ratio of orange juice to water.
Give your answer in its simplest form.

Question 2: At a football match, there are 3000 men and 1800 women.
Write down the ratio of male fans to female fans.
Give your answer in its simplest form.

Question 3: Aidan, Bill and Cara share sweets in the ratio of their ages.
Aidan is 12 years old.
Bill is 9 years old.
Cara is 3 years old.
Write down the ratio of their ages.
Give your answer in its simplest form.



Question 4: In a nursery, there are 5 adults and 14 children.
Write the ratio of adults to children in the form 1 : n

Question 5: Ellie is making a cake.
The instructions say that the ratio of sugar to flour should be 1 : 3
Ellie uses 250g of sugar and 650g of flour.
Has Ellie used the correct ratio of sugar to flour?

Corbett maths

2D Shapes

Video 1 on www.corbettmaths.com

Examples

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Workout

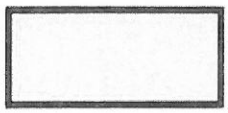
Question 1: Draw the following shapes

(a) A square (b) A rectangle (c) A circle (d) A triangle

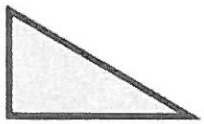
(e) A semi-circle (f) A pentagon (g) An octagon (h) A hexagon

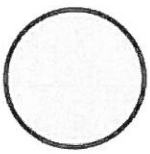
(i) A decagon (j) A heptagon

Question 2: Name each of the shapes below

(a) 

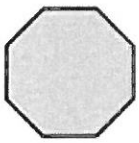
(b) 

(c) 

(d) 

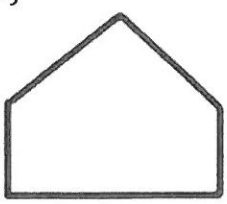
(e) 

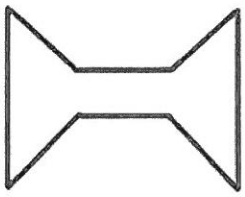
(f) 

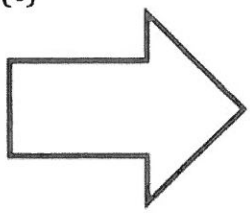
(g) 

(h) 

Question 3: Name each of the polygons below

(a) 

(b) 

(c) 

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3D Shapes

Video 3 on www.corbettmaths.com

Examples

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Workout

Question 1: Draw the following 3D shapes

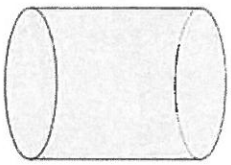
(a) A cube (b) A cuboid (c) A sphere

(d) A cylinder (e) A triangular prism (f) A cone

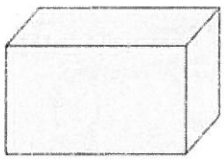
(g) A square-based pyramid (h) A tetrahedron/triangular-based pyramid

Question 2: Name each of the 3D shapes below

(a)

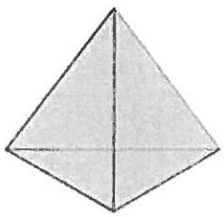


(b)



(c)

(d)



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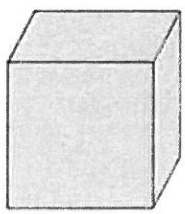
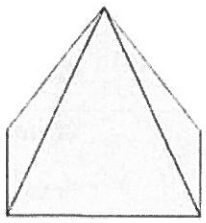
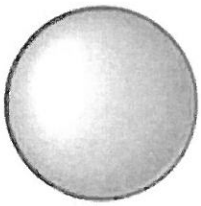


(f)



(g)



(h)