

Negatives: Addition and Subtraction

Video 205 on www.corbettmaths.com

Examples



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Workout

Question 1: Work out the answers to each of the following

- | | | | |
|--------------|--------------|----------------|----------------|
| (a) $2 - 3$ | (b) $3 - 5$ | (c) $4 - 9$ | (d) $1 - 5$ |
| (e) $5 - 7$ | (f) $6 - 7$ | (g) $8 - 11$ | (h) $2 - 10$ |
| (i) $-2 + 4$ | (j) $-3 + 9$ | (k) $-7 + 10$ | (l) $-6 + 1$ |
| (m) $-5 + 8$ | (n) $-9 + 7$ | (o) $-20 + 11$ | (p) $-12 + 18$ |
| (q) $-3 - 2$ | (r) $-4 - 1$ | (s) $-6 - 3$ | (t) $-1 - 5$ |
| (u) $-7 - 3$ | (v) $-8 - 5$ | (w) $-9 - 12$ | (x) $-15 - 13$ |

Question 2: Work out the answers to each of the following

- | | | | |
|--------------------|-------------------|-------------------|---------------------|
| (a) $3 + 5 - 4$ | (b) $2 + 1 - 6$ | (c) $5 - 8 - 1$ | (d) $7 - 10 + 1$ |
| (e) $8 + 3 - 15$ | (f) $5 - 6 - 4$ | (g) $1 - 7 - 4$ | (h) $-3 + 6 + 1$ |
| (i) $-8 + 2 + 3$ | (j) $-10 + 4 - 6$ | (k) $-9 - 3 - 1$ | (l) $-2 - 7 + 4$ |
| (m) $-20 + 11 - 6$ | (n) $-5 + 14 - 8$ | (o) $-13 - 4 + 6$ | (p) $-30 - 80 + 40$ |

Question 3: Work out the answers to each of the following

- | | | | |
|---------------|---------------|-----------------|---------------|
| (a) $4 + -1$ | (b) $6 + -2$ | (c) $8 + -7$ | (d) $3 + -5$ |
| (e) $1 + -7$ | (f) $3 + -10$ | (g) $-2 + -1$ | (h) $-1 + -6$ |
| (i) $-5 + -5$ | (j) $-4 + -5$ | (k) $-10 + -11$ | (l) $-8 + -4$ |

Question 4: Work out the answers to each of the following

- | | | | |
|---------------|---------------|-----------------|----------------|
| (a) $6 - +1$ | (b) $3 - +2$ | (c) $8 - +4$ | (d) $2 - +5$ |
| (e) $1 - +9$ | (f) $-2 - +5$ | (g) $-10 - +3$ | (h) $-1 - +1$ |
| (i) $5 - +11$ | (j) $-2 - +6$ | (k) $-20 - +13$ | (l) $15 - +25$ |

Question 5: Work out each of the following

- | | | | |
|---------------|---------------|----------------|-----------------|
| (a) $1 - -2$ | (b) $3 - -1$ | (c) $3 - -5$ | (d) $6 - -4$ |
| (e) $9 - -2$ | (f) $-1 - -4$ | (g) $-2 - -1$ | (h) $-8 - -3$ |
| (i) $-5 - -9$ | (j) $-6 - -7$ | (k) $-15 - -8$ | (l) $-12 - -30$ |

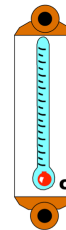
Question 6: Work out each of the following

- | | | | |
|-----------------|----------------|-----------------|-----------------|
| (a) $11 - 15$ | (b) $-9 + 5$ | (c) $-4 - 8$ | (d) $-4 + -3$ |
| (e) $-9 - +4$ | (f) $10 - -3$ | (g) $7 - 20$ | (h) $-2 - -5$ |
| (i) $12 + -7$ | (j) $-4 - -1$ | (k) $-9 + -8$ | (l) $8 - 13$ |
| (m) $6 - -11$ | (n) $-7 - +7$ | (o) $-6 - 5$ | (p) $-20 + -3$ |
| (q) $-9 - -15$ | (r) $-8 + 25$ | (s) $31 - 50$ | (t) $-30 - -16$ |
| (u) $-41 - 14$ | (v) $-5 - +23$ | (w) $-16 + -15$ | (x) $40 - -40$ |
| (y) $-18 - -27$ | (z) $-52 + 90$ | | |

Apply

Question 1: At midnight, the temperature in Belfast was -2°C
At 9am, the temperature was 5°C

By how many degrees did the temperature rise?



Question 2: Mr Jones has $-\pounds 50$ in his bank account.
If he pay $\pounds 70$ into the bank, how much will he now have in his account?

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Question 3: In the magic squares below, the numbers in any column, row or diagonal add up to give the same answer.
Complete each magic square.

(a)

| | | |
|----|----|----|
| -4 | -9 | -2 |
| | | |
| -8 | | -6 |

(b)

| | | |
|----|--|----|
| -3 | | -1 |
| 2 | | |
| 1 | | |

Question 4: Work out the missing numbers

(a) $\square + 3 = 1$ (b) $0 - \square = 8$ (c) $-6 + \square = -1$

(d) $\square - 5 = -13$ (e) $9 - \square = 15$ (f) $-2 - \square = 5$

Question 5: Write down five different additions that have an answer of 2.
You may only use whole numbers.

Question 6: Write down five subtractions that have an answer of 2.
You must use at least one negative number per calculation.

Question 7: Below are seven cards, each with a number written on it.

-3 -4 6 2 4 -7 1

(a) Choose two suitable cards to make the calculation correct. $\square + \square = 2$

(b) Choose two cards that will give the smallest possible answer $\square + \square$

(c) Choose two cards that will give an answer of zero $\square + \square = 0$

(d) Choose two cards that will give the greatest possible answer $\square - \square$

Answers



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