Negatives: Addition and Subtraction
Video 205 on www.corbettmaths.com

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

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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) $-52 + 90$

Question 1: At midnight, the temperature in Belfast was $-2\degree C$. At 9am, the temperature was $5\degree C$. By how many degrees did the temperature rise?

Question 2: Mr Jones has $-\£50$ in his bank account. If he pay $\£70$ into the bank, how much will he now have in his account?
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)  
\[ \begin{array}{ccc}
-4 & -9 & -2 \\
\hline \\
-8 & & \\
\end{array} \]

(b)  
\[ \begin{array}{ccc}
-3 & & \\
\hline \\
2 & & \\
\end{array} \]

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.

\[ -3 \quad -4 \quad 6 \quad 2 \quad 4 \quad -7 \quad 1 \]

(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
\[ \square - \square \]