

SPF2: Smoking, vaping and money - Answers



The most commonly bought brands of cigarettes in the UK, in 2023, cost £10.25 per pack of 20
(the price of cigarettes increases yearly, so before calculating, check if the cost is still the same today)

1. Calculate the cost of smoking per day for someone smoking:	
a) 5 cigarettes per day	1x cigarette = $0.5125 \times 5 =$ £2.56
b) 10 cigarettes per day	$0.5125 \times 10 =$ £5.13
c) 20 cigarettes per day	$0.5125 \times 20 =$ £10.25
2. Calculate the cost of smoking per week for someone smoking:	
a) 5 cigarettes per day	$0.5125 \times 5 \times 7 =$ £17.94
b) 10 cigarettes per day	$0.5125 \times 10 \times 7 =$ £35.88
c) 20 cigarettes per day (a pack a day)	$10.25 \times 7 =$ £71.75
3. Calculate the cost of smoking per month (assuming 31 days in a month) for someone smoking:	
a) 5 cigarettes per day	$0.5125 \times 5 \times 31 =$ £79.44
b) 10 cigarettes per day	$0.5125 \times 10 \times 31 =$ £158.88
c) 20 cigarettes per day (a pack a day)	$10.25 \times 31 =$ £317.75
4. Calculate the cost of smoking per year for someone smoking:	
a) 5 cigarettes per day	$0.5125 \times 5 \times 365 =$ £935.31
b) 10 cigarettes per day	$0.5125 \times 10 \times 365 =$ £1,870.63
c) 20 cigarettes per day (a pack a day)	$10.25 \times 365 =$ £3,741.25

Bonus question:

5. If someone smokes 20 cigarettes per day, from age 18 until they are 65, at today's prices, how much will they have spent on smoking over their lifetime?

$$£10.25 \times 365 \text{ days} = £3,741.25$$

(Age 65 - 18 = 47 years of smoking)

$$£3,741.25 \times 47 \text{ years} = \mathbf{£175,838.75}$$
 (this calculation does not take inflation into account)





The most popular brands of disposable vapes in the UK, in 2023, cost (on average) £5.00 each
(prices vary depending on the supplier, number of puffs per device and the brand, so before calculating, research the current average cost)

1. Calculate the cost of vaping per day :	
a) 1 vape every week	$£5 \div 7 = \mathbf{71p}$
b) 1 vape every 2 days	$£5 \div 2 = \mathbf{£2.50}$
c) 1 vape every day	$\mathbf{£5}$
2. Calculate the cost of vaping per week :	
a) 1 vape every week	$\mathbf{£5}$
d) 1 vape every 2 days	$7 \div 2 \times £5 = \mathbf{£17.50}$
e) 1 vape every day	$7 \times £5 = \mathbf{£35}$
3. Calculate the cost of vaping per month (assuming 31 days in a month):	
a) 1 vape every week	$£5 \div 7 \times 31 = \mathbf{£22.14}$
d) 1 vape every 2 days	$£5 \div 2 \times 31 = \mathbf{£77.50}$
e) 1 vape every day	$£5 \times 31 = \mathbf{£155}$
4. Calculate the cost of vaping per year :	
a) 1 vape every week	$£5 \div 7 \times 365 = \mathbf{£260.71}$
d) 1 vape every 2 days	$£5 \div 2 \times 365 = \mathbf{£912.50}$
e) 1 vape every day	$£5 \times 365 = \mathbf{£1,825}$

Bonus question:

5. If someone uses 1 vape every day, from age 18 until they are 65, at today's prices, how much will they have spent on vaping over their lifetime?	
$£5 \times 365 \text{ days} = £1,825$ <i>(Age 65 - 18 = 47 years of vaping)</i> $£1,825 \times 47 \text{ years} = \mathbf{£85,775.00}$ (this calculation does not take inflation into account)	

