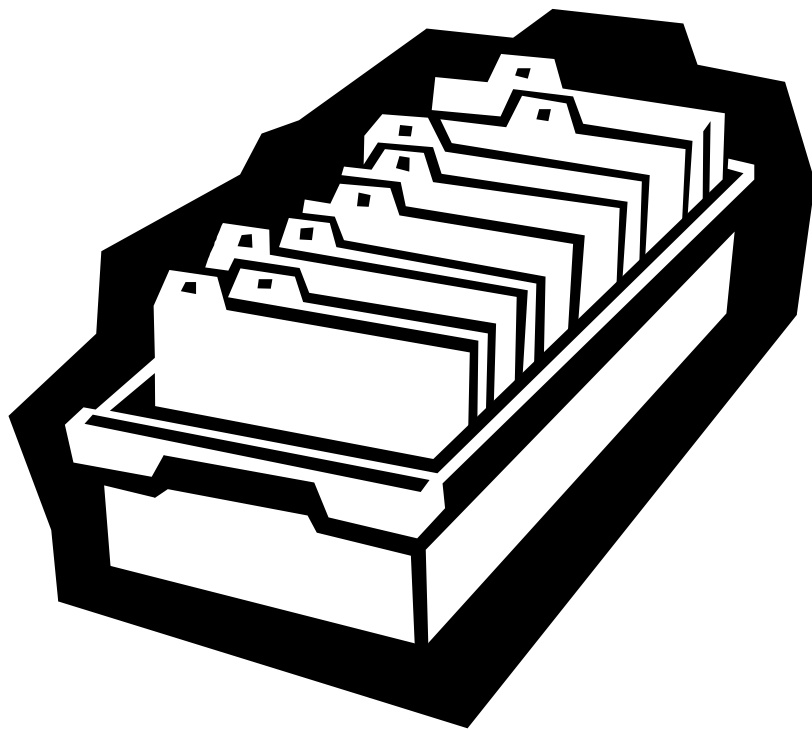


Lösungen zu den Karteikarten für Intensivierungsstunden in Jahrgangsstufe 5



Gruppe J
(Größen)

– Angaben ohne Gewähr –

- J 01** a) $20\text{ m } 12\text{ cm } 3\text{ mm} = 20123\text{mm}$
b) $14\text{ kg } 12\text{ g} = 14012\text{g}$
c) $17\text{ km } 1\text{ cm} = 17000010\text{ mm}$
d) $1\text{ m } 2\text{ dm} = 1200\text{ mm}$
e) $12\text{ km } 12\text{ m} = 120120\text{ dm}$

- J 02** a) $19\text{ m } 11\text{ cm } 6\text{ mm} = 19116\text{mm}$
b) $25\text{ kg } 19\text{ g} = 25019\text{g}$
c) $34\text{ km } 7\text{ cm} = 34000070\text{ mm}$
d) $2\text{ m } 7\text{ dm} = 2700\text{ mm}$
e) $1\text{ km } 88\text{ m} = 10880\text{ dm}$

J 03 a) $361 \text{ m } 91 \text{ cm } 7 \text{ mm} = 361917 \text{ mm}$

b) $96 \text{ kg } 23 \text{ g} = 96023 \text{ g}$

c) $78 \text{ km } 6 \text{ cm} = 78000060 \text{ mm}$

d) $6 \text{ m } 5 \text{ dm} = 6500 \text{ mm}$

e) $8 \text{ km } 77 \text{ m} = 80770 \text{ dm}$

J 04 a) $78 \text{ m } 86 \text{ cm } 6 \text{ mm} = 78866 \text{ mm}$

b) $196 \text{ kg } 56 \text{ g} = 196056 \text{ g}$

c) $96 \text{ km } 8 \text{ cm} = 96000080 \text{ mm}$

d) $9 \text{ m } 6 \text{ dm} = 9600 \text{ mm}$

e) $87 \text{ km } 63 \text{ m} = 870630 \text{ dm}$

Gruppe J	Thema: Größen	Schwierigkeit: gelb
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- J 01** a) $20 \text{ m } 51 \text{ cm} = 2051 \text{ cm} = \underline{20,51 \text{ m}}$
b) $14 \text{ t } 312 \text{ g} = 14000312\text{g} = \underline{14,000312 \text{ t}}$
c) $17 \text{ km } 1 \text{ cm} = 1700001 \text{ cm} = \underline{17000,01\text{m}}$
d) $12,12 \text{ dm} = 1212 \text{ cm} = \underline{1,212 \text{ m}}$
e) $15,12 \text{ m} = 1512 \text{ cm} = \underline{0,01512 \text{ km}}$

Gruppe J	Thema: Größen	Schwierigkeit: gelb
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- J 02** a) $10 \text{ m } 51 \text{ cm} = 1051 \text{ cm} = \underline{10,51 \text{ m}}$
b) $13 \text{ t } 312 \text{ g} = 13000312\text{g} = \underline{13,000312 \text{ t}}$
c) $65 \text{ km } 4 \text{ cm} = 6500004 \text{ cm} = \underline{65000,04\text{m}}$
d) $34,43 \text{ dm} = 3443 \text{ cm} = \underline{3,443 \text{ m}}$
e) $23,32 \text{ m} = 2332 \text{ cm} = \underline{0,02332 \text{ km}}$

Gruppe J	Thema: Größen	Schwierigkeit: gelb
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- J 03** a) $56 \text{ m } 31 \text{ cm} = 5631 \text{ cm} = \underline{56,31 \text{ m}}$
b) $12 \text{ t } 952 \text{ g} = 12000952 \text{ g} = \underline{12,000952 \text{ t}}$
c) $19 \text{ km } 8 \text{ cm} = 1900008 \text{ cm} = \underline{19000,08 \text{ m}}$
d) $56,65 \text{ dm} = 5665 \text{ cm} = \underline{5,665 \text{ m}}$
e) $21,82 \text{ m} = 2182 \text{ cm} = \underline{0,02182 \text{ km}}$

Gruppe J	Thema: Größen	Schwierigkeit: gelb
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- J 04** a) $89 \text{ m } 85 \text{ cm} = 8985 \text{ cm} = \underline{89,85 \text{ m}}$
b) $89 \text{ t } 962 \text{ g} = 89000962 \text{ g} = \underline{89,000962 \text{ t}}$
c) $15 \text{ km } 7 \text{ cm} = 1500007 \text{ cm} = \underline{15000,07 \text{ m}}$
d) $82,28 \text{ dm} = 8228 \text{ cm} = \underline{8,228 \text{ m}}$
e) $54,23 \text{ m} = 5423 \text{ cm} = \underline{0,05423 \text{ km}}$

- J 01**
- a) $201,34 \text{ m} = 201 \text{ m } 3 \text{ dm } 4 \text{ cm}$
 - b) $1422,312 \text{ kg} = 1 \text{ t } 422 \text{ kg } 312 \text{ g}$
 - c) $17,09 \text{ €} = 17 \text{ € } 9 \text{ ct}$

 - d) $231 \text{ m } 1251 \text{ cm} = \underline{243 \text{ m } 5 \text{ dm } 1 \text{ cm}}$
 - e) $99 \text{ t } 1312 \text{ kg} = \underline{100 \text{ t } 312 \text{ kg}}$
 - f) $19 \text{ m } 99 \text{ dm } 99 \text{ cm} = 19 \text{ m } 108 \text{ dm } 9 \text{ cm} = \underline{29 \text{ m } 8 \text{ dm } 9 \text{ cm}}$

- J 02**
- a) $531,19 \text{ m} = 531 \text{ m } 1 \text{ dm } 9 \text{ cm}$
 - b) $256,569 \text{ kg} = 256 \text{ kg } 569 \text{ g}$
 - c) $35,08 \text{ €} = 35 \text{ € } 8 \text{ ct}$

 - d) $563 \text{ m } 256 \text{ cm} = \underline{565 \text{ m } 5 \text{ dm } 6 \text{ cm}}$
 - e) $89 \text{ t } 1212 \text{ kg} = \underline{90 \text{ t } 212 \text{ kg}}$
 - f) $129 \text{ m } 98 \text{ dm } 98 \text{ cm} = 129 \text{ m } 107 \text{ dm } 8 \text{ cm} = \underline{139 \text{ m } 7 \text{ dm } 8 \text{ cm}}$

- J 03** a) $2361,19 \text{ m} = 2 \text{ km } 361 \text{ m } 1 \text{ dm } 9 \text{ cm}$
b) $6966,129 \text{ kg} = 6 \text{ t } 966 \text{ kg } 129 \text{ g}$
c) $10005 \text{ ct} = 100 \text{ € } 5 \text{ ct}$

d) $91 \text{ m } 658 \text{ cm} = \underline{96 \text{ m } 5 \text{ dm } 8 \text{ cm}}$
e) $69 \text{ t } 5693 \text{ kg} = \underline{74 \text{ t } 693 \text{ kg}}$
f) $999 \text{ m } 89 \text{ dm } 198 \text{ cm} = 999 \text{ m } 108 \text{ dm } 8 \text{ cm} = 1009 \text{ m } 8 \text{ dm } 8 \text{ cm} = \underline{1 \text{ km } 9 \text{ m } 8 \text{ dm } 8 \text{ cm}}$

- J 04** a) $6961,19 \text{ m} = 6 \text{ km } 961 \text{ m } 1 \text{ dm } 9 \text{ cm}$
b) $3666,133 \text{ kg} = 3 \text{ t } 666 \text{ kg } 133 \text{ g}$
c) $111112 \text{ ct} = 1111 \text{ € } 12 \text{ ct}$

d) $69 \text{ m } 962 \text{ cm} = \underline{78 \text{ m } 6 \text{ dm } 2 \text{ cm}}$
e) $19 \text{ t } 6932 \text{ kg} = \underline{25 \text{ t } 932 \text{ kg}}$
f) $998 \text{ m } 96 \text{ dm } 949 \text{ cm} = 998 \text{ m } 190 \text{ dm } 9 \text{ cm} = 1017 \text{ m } 0 \text{ dm } 9 \text{ cm} = \underline{1 \text{ km } 17 \text{ m } 9 \text{ cm}}$

Gruppe J	Thema: Größen	Schwierigkeit: blau
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- J 01** a) $1234 \text{ s} = 20 \text{ min } 34 \text{ s}$ NR: $1234 : 60 = 20 \text{ R } 34$
- b) $8991 \text{ s} = 149 \text{ min } 51 \text{ s} =$
 $= \underline{2 \text{ h } 29 \text{ min } 51 \text{ s}}$ NR: $8991 : 60 = 149 \text{ R } 51$
 $149:60 = 2 \text{ R } 29$
- c) $1236586 \text{ s} = 20609 \text{ min } 46 \text{ s} =$
 $= 343 \text{ h } 29 \text{ min } 46 \text{ s} =$
 $= \underline{14 \text{ d } 7 \text{ h } 29 \text{ min } 46 \text{ s}}$ NR: $1236586:60 = 20609 \text{ R } 46$
 $20609:60 = 343 \text{ R } 29$
 $343 : 24 = 14 \text{ R } 7$
- d) $21 \text{ h } 1251 \text{ min } 3812 \text{ s} =$
 $= 21 \text{ h } 1314 \text{ min } 32 \text{ s} =$
 $= 42 \text{ h } 54 \text{ min } 32 \text{ s} =$
 $= \underline{1 \text{ d } 18 \text{ h } 54 \text{ min } 32 \text{ s}}$ NR: $3812:60 = 63 \text{ R } 32 ; 1251 + 63 = 1314$
 $1314:60 = 21 \text{ R } 54$
 $42:24 = 1 \text{ R } 18$
- e) $80 \text{ h } 551 \text{ min } 560 \text{ s} =$
 $80 \text{ h } 560 \text{ min } 20 \text{ s} =$
 $89 \text{ h } 20 \text{ min } 20 \text{ s}$
 $= \underline{3 \text{ d } 17 \text{ h } 20 \text{ min } 20 \text{ s}}$ NR: $560:60 = 9 \text{ R } 20$
 $560:60 = 9 \text{ R } 20$
 $89:24 = 3 \text{ R } 17$
- f) $15 \text{ kg } 3453 \text{ g} = 18 \text{ kg } 453 \text{ g} = \underline{0,018453 \text{ t}}$
- g) $34 \text{ t } 9999 \text{ kg } 12342 \text{ g} = 34 \text{ t } 10011 \text{ kg } 342 \text{ g} = 44 \text{ t } 11 \text{ kg } 342 \text{ g} = \underline{44011,342 \text{ kg}}$

Gruppe J	Thema: Größen	Schwierigkeit: blau
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- J 02** a) $2344 \text{ s} = 39 \text{ min } 4 \text{ s}$ NR: $2334 : 60 = 39 \text{ R } 4$
- b) $7861 \text{ s} = 131 \text{ min } 1 \text{ s} =$
 $= \underline{2 \text{ h } 11 \text{ min } 1 \text{ s}}$ NR: $7861 : 60 = 131 \text{ R } 1$
 $131:60 = 2 \text{ R } 11$
- c) $1253364 \text{ s} = 20889 \text{ min } 24 \text{ s} =$
 $= 348 \text{ h } 9 \text{ min } 24 \text{ s} =$
 $= \underline{14 \text{ d } 12 \text{ h } 9 \text{ min } 24 \text{ s}}$ NR: $1253364:60 = 20889 \text{ R } 24$
 $20889:60 = 348 \text{ R } 9$
 $343 : 24 = 14 \text{ R } 12$
- d) $22 \text{ h } 1423 \text{ min } 3756 \text{ s} =$
 $= 22 \text{ h } 1485 \text{ min } 36 \text{ s} =$
 $= 46 \text{ h } 45 \text{ min } 36 \text{ s} =$
 $= \underline{1 \text{ d } 22 \text{ h } 45 \text{ min } 36 \text{ s}}$ NR: $3756:60 = 62 \text{ R } 36 ; 1423 + 62 = 1485$
 $1485:60 = 24 \text{ R } 45$
 $46:24 = 1 \text{ R } 22$
- e) $76 \text{ h } 532 \text{ min } 512 \text{ s} =$
 $= 76 \text{ h } 540 \text{ min } 32 \text{ s} =$
 $= 85 \text{ h } 32 \text{ s}$
 $= \underline{3 \text{ d } 13 \text{ h } 32 \text{ s}}$ NR: $512:60 = 8 \text{ R } 32$
 $540:60 = 9$
 $85:24 = 3 \text{ R } 13$
- f) $36 \text{ kg } 5698 \text{ g} = 41 \text{ kg } 698 \text{ g} = \underline{0,041698 \text{ t}}$
- g) $96 \text{ t } 9989 \text{ kg } 13569 \text{ g} = 96 \text{ t } 10002 \text{ kg } 569 \text{ g} = 106 \text{ t } 2 \text{ kg } 569 \text{ g} = \underline{106 \text{ 002,569 kg}}$

Gruppe J	Thema: Größen	Schwierigkeit: blau
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- J 03** a) $3253 \text{ s} = 54 \text{ min } 13 \text{ s}$ NR: $3253 : 60 = 54 \text{ R } 13$
- b) $8123 \text{ s} = 135 \text{ min } 23 \text{ s} =$ NR: $8123 : 60 = 135 \text{ R } 23$
 $= \underline{2 \text{ h } 15 \text{ min } 23 \text{ s}}$ $135:60 = 2 \text{ R } 15$
- c) $1569325 \text{ s} = 26155 \text{ min } 25 \text{ s} =$ NR: $1569325:60 = 26155 \text{ R } 25$
 $= 435 \text{ h } 55 \text{ min } 25 \text{ s} =$ $26155:60 = 435 \text{ R } 55$
 $= \underline{18 \text{ d } 3 \text{ h } 55 \text{ min } 25 \text{ s}}$ $435 : 24 = 18 \text{ R } 3$
- d) $23 \text{ h } 2563 \text{ min } 4125 \text{ s} =$ NR: $4125:60 = 68 \text{ R } 45 ; 2563 + 68 = 2631$
 $= 23 \text{ h } 2631 \text{ min } 45 \text{ s} =$ $2631:60 = 43 \text{ R } 51$
 $= 66 \text{ h } 51 \text{ min } 45 \text{ s} =$ $66:24 = 2 \text{ R } 18$
 $= \underline{2 \text{ d } 18 \text{ h } 51 \text{ min } 45 \text{ s}}$
- e) $74 \text{ h } 632 \text{ min } 452 \text{ s} =$ NR: $452:60 = 7 \text{ R } 32$
 $= 74 \text{ h } 639 \text{ min } 32 \text{ s} =$ $639:60 = 10 \text{ R } 39$
 $= 84 \text{ h } 39 \text{ min } 32 \text{ s}$ $84:24 = 3 \text{ R } 12$
 $= \underline{3 \text{ d } 12 \text{ h } 39 \text{ min } 32 \text{ s}}$
- f) $41 \text{ kg } 6958 \text{ g} = 47 \text{ kg } 958 \text{ g} = \underline{0,047958 \text{ t}}$
- g) $89 \text{ t } 9995 \text{ kg } 14362 \text{ g} = 89 \text{ t } 10009 \text{ kg } 362 \text{ g} = 99 \text{ t } 9 \text{ kg } 362 \text{ g} = \underline{99009,362 \text{ kg}}$

Gruppe J	Thema: Größen	Schwierigkeit: blau
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- J 04** a) $2563 \text{ s} = 42 \text{ min } 43 \text{ s}$ NR: $2563 : 60 = 42 \text{ R } 43$
- b) $7658 \text{ s} = 127 \text{ min } 38 \text{ s} =$ NR: $7658 : 60 = 127 \text{ R } 38$
 $= \underline{2 \text{ h } 7 \text{ min } 38 \text{ s}}$ $127:60 = 2 \text{ R } 7$
- c) $1356542 \text{ s} = 22609 \text{ min } 2 \text{ s} =$ NR: $1356542:60 = 22609 \text{ R } 2$
 $= 376 \text{ h } 49 \text{ min } 2 \text{ s} =$ $22609:60 = 376 \text{ R } 49$
 $= \underline{15 \text{ d } 16 \text{ h } 49 \text{ min } 2 \text{ s}}$ $376 : 24 = 15 \text{ R } 16$
- d) $22 \text{ h } 2369 \text{ min } 2365 \text{ s} =$ NR: $2365:60 = 39 \text{ R } 25 ; 2369 + 39 = 2408$
 $= 22 \text{ h } 2408 \text{ min } 25 \text{ s} =$ $2408:60 = 40 \text{ R } 8$
 $= 62 \text{ h } 8 \text{ min } 25 \text{ s} =$ $62:24 = 2 \text{ R } 14$
 $= \underline{2 \text{ d } 14 \text{ h } 51 \text{ min } 25 \text{ s}}$
- e) $74 \text{ h } 621 \text{ min } 652 \text{ s} =$ NR: $652:60 = 10 \text{ R } 52$
 $= 74 \text{ h } 631 \text{ min } 52 \text{ s} =$ $631:60 = 10 \text{ R } 31$
 $= 84 \text{ h } 31 \text{ min } 52 \text{ s}$ $84:24 = 3 \text{ R } 12$
 $= \underline{3 \text{ d } 12 \text{ h } 31 \text{ min } 52 \text{ s}}$
- f) $63 \text{ kg } 5898 \text{ g} = 68 \text{ kg } 898 \text{ g} = \underline{0,068898 \text{ t}}$
- g) $95 \text{ t } 9992 \text{ kg } 12369 \text{ g} = 95 \text{ t } 10004 \text{ kg } 369 \text{ g} = 105 \text{ t } 4 \text{ kg } 369 \text{ g} = \underline{105004,369 \text{ kg}}$

